

**Flood Control Project Maintenance
Levee Inspections**

Fall 2019 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD1001	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 1001 Nicolaus	A	43.74						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.06	0.09		
Trim / Thin Trees	0.02		0.02	0.05%				
Encroachments					2.91	0.16		
Slope Stability	0.01		0.01	0.02%				
<i>Supplemental</i>								
2017 USACE Erosion Survey	0.65		0.65	1.49%				
DRAFT DWR UCIP Field Study					0.43	0.07		
DRAFT DWR UCIP LMA Responsibility								
<i>LMA Totals:</i>	0.68	0.00	0.68	1.56%	3.40	0.32	0.00	0.00
Unit No. 01 Yankee Slough RB	Overall Unit Rating	Total Unit Miles						
RD1001	A	4.12						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.05	0.01		
Encroachments					0.09	0.03		
<i>Supplemental</i>								
DRAFT DWR UCIP Field Study					0.01			
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.15	0.04	0.00	0.00
Unit No. 02 Yankee Slough LB	Overall Unit Rating	Total Unit Miles						
RD1001	A	3.65						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation						0.01		
Encroachments					0.33	0.01		
<i>Supplemental</i>								
2017 USACE Erosion Survey	0.03		0.03	0.82%				
DRAFT DWR UCIP Field Study					0.02			
DRAFT DWR UCIP LMA Responsibility								
<i>Unit Totals:</i>	0.03	0.00	0.03	0.82%	0.35	0.02	0.00	0.00
Unit No. 03 Bear River LB	Overall Unit Rating	Total Unit Miles						
RD1001	A	12.58						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Trim / Thin Trees	0.01		0.01	0.08%				
Encroachments					1.51	0.02		
<i>Supplemental</i>								
DRAFT DWR UCIP Field Study					0.03			
<i>Unit Totals:</i>	0.01	0.00	0.01	0.08%	1.54	0.02	0.00	0.00

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Fall 2019 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 04 Feather River LB		Overall Unit Rating	Total Unit Miles						
RD1001		A	13.27						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation					0.01	0.07			
Trim / Thin Trees	0.01		0.01	0.08%					
Encroachments					0.12	0.01			
Slope Stability	0.01		0.01	0.08%					
<i>Supplemental</i>									
DRAFT DWR UCIP Field Study					0.20	0.04			
<i>Unit Totals:</i>	0.02	0.00	0.02	0.15%	0.33	0.12	0.00	0.00	

Unit No. 05 Natomas Cross Canal RB		Overall Unit Rating	Total Unit Miles						
RD1001		M	5.39						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Encroachments					0.30				
<i>Supplemental</i>									
2017 USACE Erosion Survey	0.62		0.62	11.51%					
DRAFT DWR UCIP Field Study					0.04				
<i>Unit Totals:</i>	0.62	0.00	0.62	11.51%	0.34	0.00	0.00	0.00	

Unit No. 06 East Side Canal RB		Overall Unit Rating	Total Unit Miles						
RD1001		A	4.74						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Encroachments					0.56	0.09			
<i>Supplemental</i>									
DRAFT DWR UCIP Field Study					0.13	0.03			
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.69	0.12	0.00	0.00	

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Fall 2019 Levee Inspection Results****Reclamation District No. 1001 Nicolaus**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

†

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 01 Yankee Slough			Right	4.12
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/12/2019 - 3/12/2019		10/2/2019 - 10/2/2019	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/02/2019 10/02/2019	Sterling York

LM Start		Rating **	A	Issue No.	1
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD1001_01_s_2012_1				
Comment Code					
Inspector Comment					
The LMA has flood fight supplies on hand at their district office.					

No Photos

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD1001_01_s_2012_2				
Comment Code					
Inspector Comment					
The LMA participates in the flood fight class put on by RD784 and DWR annually.					

No Photos

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD1001_01_s_2012_3				
Comment Code					
Inspector Comment					
The LMA has a copy of the O&M manuals at the district office.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1001 Nicolaus

View looking downstream waterside of the well maintained annual vegetation, Fall 2019.

View looking downstream landside of the well maintained annual vegetation, Fall 2019.

View of prunings on landside toe looking downstream, Fall 2019.

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Reclamation District No. 1001 Nicolaus

View of debris/prunings at landside levee toe, Spring 2017.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/02/2019 10/02/2019	Sterling York

LM Start	0.73	Rating **	A/W	Issue No.	9	
LM End	0.75	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.975046°	38.975038°	
				-121.480938°	-121.481151°	
DWR ID	LMA-15					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:135						
Site Designation:LMA-15						
Repair Type: Erosion						
Rating:Serious						
Field Date:6/6/2017						
Notes: Erosion of berm due to water flowing on berm toe road. Soil is silty sand and no veg or rock. X-section is from 1 of 2 emergency repairs that encroached into levee prism. Hole was backfilled with rock, about 7' deep.						

Photo 1 of 3 : LEVAL_FA_2019_135_296.jpg



LM Start	0.73	Rating **	A/W	Issue No.	9 (cont)
LM End	0.75	Issue Type +	Ma	Location *	

Photo 2 of 3 : LEVAL_FA_2019_135_300.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/02/2019 10/02/2019	Sterling York

LM Start	0.73	Rating **	A/W	Issue No.	9 (cont)	
LM End	0.75	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.975046°	38.975038°	
				-121.480938°	-121.481151°	
DWR ID	LMA-15					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:135						
Site Designation:LMA-15						
Repair Type: Erosion						
Rating:Serious						
Field Date:6/6/2017						
Notes: Erosion of berm due to water flowing on berm toe road. Soil is silty sand and no veg or rock. X-section is from 1 of 2 emergency repairs that encroached into levee prism. Hole was backfilled with rock, about 7' deep.						

Photo 3 of 3 : LEVAL_FA_2019_135_303.jpg



LM Start	0.95	Rating **	C	Issue No.	15
LM End	0.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.974569 °	38.974569 °
				-121.484815 °	-121.484815 °
DWR ID	DWR_RD1001_01_s_2012_15				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping has been removed, Fall 2019.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/02/2019 10/02/2019	Sterling York

LM Start	0.98	Rating **	M	Issue No.	18
LM End	0.98	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.974284 °	38.974284 °
				-121.485362 °	-121.485362 °
DWR ID	DWR_RD1001_01_f_2018_18				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings need to be removed off the levee toe.					

No Photos

LM Start	1.29	Rating **	U	Issue No.	7
LM End	1.29	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.972655 °	38.972655 °
				-121.490643 °	-121.490643 °
DWR ID	DWR_RD1001_01_f_2014_7				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings need to be removed off the levee toe, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_36_7_20191029_00022.jpg



View of the landside looking downstream at prunings stacked up at the levee toe, Fall 2019.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/02/2019 10/02/2019	Sterling York

LM Start	1.53	Rating **	M	Issue No.	28
LM End	1.53	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.970622 °	38.970622 °
				-121.494171 °	-121.494171 °
DWR ID	22526				
Comment Code					
Inspector Comment					
DS_ID:22526 FS_ID:42016 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 05/22/2013 Dense vegetation should be removed. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch standpipe and service pole at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/22/2013					

No Photos

LM Start	2.01	Rating **	U	Issue No.	22
LM End	2.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.971093 °	38.971093 °
				-121.502895 °	-121.502895 °
DWR ID	DWR_RD1001_01_f_2016_22				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings need to be removed, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_36_22_20190904_00014.jpg



View of prunings on the landside toe looking upstream. Fall 2017.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/02/2019 10/02/2019	Sterling York

LM Start	2.22	Rating **	M	Issue No.	6
LM End	2.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.969304 °	38.969304 °
				-121.506050 °	-121.506050 °
DWR ID	DWR_RD1001_01_f_2014_6				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings still at levee toe need to be removed, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_36_6_20190904_00004.jpg



This photo was taken of the landside looking upstream at prunings stacked up at the levee toe.

LM Start	2.97	Rating **	M	Issue No.	14
LM End	2.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.966651 °	38.966651 °
				-121.518940 °	-121.518940 °
DWR ID	DWR_RD1001_01_s_2018_14				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings from levee toe, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_36_14_20190904_00010.jpg



View looking upstream landside of prunings that have been placed at levee toe.

LM Start	3.12	Rating **	M	Issue No.	5
LM End	3.17	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.965663 °	38.965705 °
				-121.521023 °	-121.522098 °
DWR ID	DWR_RD1001_01_s_2012_5				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 2 : FA_2019_RD1001_36_5_20190904_00002.jpg



Unit 1 Landscaping on landside levee slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/02/2019 10/02/2019	Sterling York

LM Start	3.12	Rating **	M	Issue No.	5 (cont)	
LM End	3.17	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.965663 °		38.965705 °
				-121.521023 °		-121.522098 °
DWR ID	DWR_RD1001_01_s_2012_5					
Comment Code						
V6 : Landscaping						
Inspector Comment						

Photo 2 of 2 : FA_2019_RD1001_36_5_20190904_00003.jpg



View of landscaping on landside slope.

LM Start	3.13	Rating **	M	Issue No.	20
LM End	3.17	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.965663 °	38.965672 °
				-121.521267 °	-121.521919 °
DWR ID	DWR_RD1001_01_f_2016_20				
Comment Code					
FE : Fence					
Inspector Comment					
Land owner has installed an unpermitted fence on the landside levee slope.					

Photo 1 of 1 : FA_2019_RD1001_36_20_20190904_00013.jpg



View of a fence on the landside levee slope looking upstream.

LM Start	3.19	Rating **	C	Issue No.	8
LM End	3.19	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.965694 °	38.965694 °
				-121.522424 °	-121.522424 °
DWR ID	DWR_RD1001_01_f_2015_8				
Comment Code					
BU : Building					
Inspector Comment					
The building has been removed from this location, Fall 2019.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	10/02/2019 10/02/2019	Sterling York

LM Start	3.21	Rating **	U	Issue No.	4
LM End	3.21	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.965699 °	38.965699 °
				-121.522790 °	-121.522790 °
DWR ID	DWR_RD1001_01_f_2015_4				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1001_36_4_20190904_00001.jpg



View of the landscaping at the landside levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 02 Yankee Slough			Left	3.65
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/5/2019 - 3/5/2019		10/2/2019 - 10/2/2019	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

Summer & Winter Inspections

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- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/02/2019 10/02/2019	Sterling York

LM Start	0.00	Rating **	A	Issue No.	8
LM End	3.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.971255 °	38.965598 °
				-121.474003 °	-121.533201 °
DWR ID	DWR_RD1001_02_f_2019_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_35_8_20191029_00027.jpg



View looking downstream waterside of the well maintained annual vegetation, Fall 2019.

LM Start	0.00	Rating **	A	Issue No.	7
LM End	3.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.971256 °	38.965598 °
				-121.474003 °	-121.533201 °
DWR ID	DWR_RD1001_02_f_2019_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_35_7_20191029_00026.jpg



View looking downstream landside of the well maintained annual vegetation, Fall 2019.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/02/2019 10/02/2019	Sterling York

LM Start	0.24	Rating **	M	Issue No.	53	
LM End	0.24	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.974103°	38.974103°	
				-121.475948°	-121.475948°	
DWR ID	22536					
Comment Code						
Inspector Comment						
DS_ID:22536 FS_ID:41673 EP_NO: 5562 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/23/2013 Pipe appears abandoned and if so should be done so properly. WS pipe plugged with stopper. Seems abandoned. Only abandoned pump base found. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 6-inch coated steel irrigation pipe through the levee, 3.5 feet below the crown. Metal cutoff collar placed on the pipe at the center of the levee crown. Pump was removed. Pump base on the waterside (WS) berm. Shutoff valve on the discharge side of the pump. Foot valve below water on the intake side of the pump. Siphon breaker on the landside (LS) shoulder. Pipe discharges into underground irrigation system on the LS. Power pole and meter box, 10 feet from the landward toe. 1.5-inch flexible conduit through levee, 3.5 feet below the crown. (Pump and 6-inch irrigation pipe authorized under Permit No. 5562, 1966 - Samuel B. Single). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/23/2013						

LM Start	0.24	Rating **	M	Issue No.	53 (cont)
LM End	0.24	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_41673_22745.jpg



Levee Crown: dense vegetation on levee crown and sides.

Photo 2 of 3 : UCIP_FA_2019_41673_22744.jpg



WS- plugged pipe and pump base.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/02/2019 10/02/2019	Sterling York

LM Start	0.24	Rating **	M	Issue No.	53 (cont)	
LM End	0.24	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.974103 °	38.974103 °	
				-121.475948 °	-121.475948 °	
DWR ID	22536					
Comment Code						
Inspector Comment						
DS_ID:22536 FS_ID:41673 EP_NO: 5562 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/23/2013 Pipe appears abandoned and if so should be done so properly. WS pipe plugged with stopper. Seems abandoned. Only abandoned pump base found. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 6-inch coated steel irrigation pipe through the levee, 3.5 feet below the crown. Metal cutoff collar placed on the pipe at the center of the levee crown. Pump was removed. Pump base on the waterside (WS) berm. Shutoff valve on the discharge side of the pump. Foot valve below water on the intake side of the pump. Siphon breaker on the landside (LS) shoulder. Pipe discharges into underground irrigation system on the LS. Power pole and meter box, 10 feet from the landward toe. 1.5-inch flexible conduit through levee, 3.5 feet below the crown. (Pump and 6-inch irrigation pipe authorized under Permit No. 5562, 1966 - Samuel B. Single). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/23/2013						

Photo 3 of 3 : UCIP_FA_2019_41673_22743.jpg



LS- only pipe air vent found on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/02/2019 10/02/2019	Sterling York

LM Start	0.47	Rating **	M	Issue No.	54
LM End	0.47	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.974329 °	38.974329 °
				-121.480043 °	-121.480043 °
DWR ID	22529				

Comment Code

Inspector Comment

DS_ID:22529
FS_ID:50740
EP_NO: 2281
Repair Type: Non-Urgent
Crossing Status: Not Found
UCIP Comments: 01/17/2019 Records detailing the actions taken for the removal of the 7-inch pipe were recorded under file name LI10703_79259 document 20141008 CVFPB letter of acknowledgement available through permit records. (O. Magana - DWR UCIP)
07/13/2016 According to district president Joe Henderson, pipe was removed 2-3 years ago. No permit for removal found or evidence of pipe or its removal found. (K. Fazel - UCIP)
05/23/2013:- leaky pipe end and erosion on WS.- cracked dirt mound on LS - seems not been used for some time. (P. Amatya - DWR)
FIELD_STRUCT_DESC: *REMOVED* 7-inch steel irrigation pipe through the levee, 1.9 feet below the crown. Portable pump mounted on the bank during the summer months. Control valve on the waterside (WS). Steel plate bolted on the WS end during the winter months. Pipe discharges into a 30-inch concrete standpipe at the landside (LS) toe. (Pump and 7-inch irrigation pipe authorized under Permit No. 2281, 1956 - Willard R. Brown; 7-inch pipe through levee and concrete standpipe located on LS were removed as part of the 2013 USACE Periodic Inspection). [Additional Reference(s): DWR Levee Log, 1993].
FS Date: 7/13/2016

LM Start	0.47	Rating **	M	Issue No.	54 (cont)
LM End	0.47	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_50740_22753.jpg



WS- end of the pipe.

Photo 2 of 3 : UCIP_FA_2019_50740_22752.jpg



WS- seems abandoned or not been used for some time.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/02/2019 10/02/2019	Sterling York

LM Start	0.47	Rating **	M	Issue No.	54 (cont)	
LM End	0.47	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.974329 °	38.974329 °	
				-121.480043 °	-121.480043 °	
DWR ID	22529					
Comment Code						
Inspector Comment						
DS_ID:22529						
FS_ID:50740						
EP_NO: 2281						
Repair Type: Non-Urgent						
Crossing Status: Not Found						
UCIP Comments: 01/17/2019 Records detailing the actions taken for the removal of the 7-inch pipe were recorded under file name LI10703_79259 document 20141008 CVFPB letter of acknowledgement available through permit records. (O. Magana - DWR UCIP)						
07/13/2016 According to district president Joe Henderson, pipe was removed 2-3 years ago. No permit for removal found or evidence of pipe or its removal found. (K. Fazel - UCIP)						
05/23/2013:- leaky pipe end and erosion on WS.- cracked dirt mound on LS - seems not been used for some time. (P. Amatya - DWR)						
FIELD_STRUCT_DESC: *REMOVED* 7-inch steel irrigation pipe through the levee, 1.9 feet below the crown. Portable pump mounted on the bank during the summer months. Control valve on the waterside (WS). Steel plate bolted on the WS end during the winter months. Pipe discharges into a 30-inch concrete standpipe at the landside (LS) toe. (Pump and 7-inch irrigation pipe authorized under Permit No. 2281, 1956 - Willard R. Brown; 7-inch pipe through levee and concrete standpipe located on LS were removed as part of the 2013 USACE Periodic Inspection). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 7/13/2016						

Photo 3 of 3 : UCIP_FA_2019_50740_22751.jpg



WS- due to water leak, soil around pipe eroded.

LM Start	0.53	Rating **	M	Issue No.	19
LM End	0.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.974371 °	38.974371 °
				-121.481223 °	-121.481223 °
DWR ID	DWR_RD1001_02_f_2016_19				
Comment Code					
AV : Abandoned vehicles					
Inspector Comment					
Remove boat parked at the landside levee toe, Fall 2019.					

Photo 1 of 2 : FA_2019_RD1001_35_19_20190904_00008.jpg



View of a boat at the landside levee toe. Fall 2018.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/02/2019 10/02/2019	Sterling York

LM Start	0.53	Rating **	M	Issue No.	19 (cont)	
LM End	0.53	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			38.974371 °	38.974371 °	
				-121.481223 °	-121.481223 °	
DWR ID	DWR_RD1001_02_f_2016_19					
Comment Code						
AV : Abandoned vehicles						
Inspector Comment						
Remove boat parked at the landside levee toe, Fall 2019.						

Photo 2 of 2 : FA_2019_RD1001_35_19_20190904_00009.jpg



View of a boat at the landside levee toe. Fall 2017.

LM Start	0.54	Rating **	M	Issue No.	21
LM End	0.54	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.974348 °	38.974348 °
				-121.481498 °	-121.481498 °
DWR ID	DWR_RD1001_02_f_2016_21				
Comment Code					
TA : Tank					
Inspector Comment					
Tank at landside levee toe needs to be removed from easement.					

Photo 1 of 1 : FA_2019_RD1001_35_21_20190904_00010.jpg



View looking downstream landside, equipment has been moved but fuel tank remains.

LM Start	0.78	Rating **	M	Issue No.	22
LM End	0.78	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.973509 °	38.973509 °
				-121.485668 °	-121.485668 °
DWR ID	DWR_RD1001_02_f_2016_22				
Comment Code					
DE : Debris					
Inspector Comment					
Debris has been piled up again, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_35_22_20191029_00029.jpg



View of debris pile on the landside levee slope looking downstream, Fall 2019.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/02/2019 10/02/2019	Sterling York

LM Start	1.21	Rating **	C	Issue No.	29
LM End	1.21	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.970635 °	38.970635 °
				-121.492476 °	-121.492476 °
DWR ID	DWR_RD1001_02_f_2017_29				
Comment Code					
DE : Debris					
Inspector Comment					
Stumps, prunings and debris have been removed 15 feet from toe, Fall 2019.					

No Photos

LM Start	1.31	Rating **	M	Issue No.	12
LM End	1.31	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.969830 °	38.969830 °
				-121.493994 °	-121.493994 °
DWR ID	DWR_RD1001_02_s_2015_12				
Comment Code					
MA : Material					
Inspector Comment					
Sand pile needs to be removed from waterside slope, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_35_12_20191029_00028.jpg



View of a pile of soil on the waterside slope looking downstream, Fall 2019.

LM Start	1.33	Rating **	M	Issue No.	4
LM End	1.36	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.969740 °	38.969640 °
				-121.494327 °	-121.494829 °
DWR ID	DWR_RD1001_02_f_2018_4				
Comment Code					
Inspector Comment					
2017 Site ID: YAS 1.7 L					
Status: Eroding					
2017 Field Notes: No observed change.					
Site History: 2011 - New erosion site. Steep eroding slope. Fairly old scarp with vegetation growth.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

Reclamation District No. 1001 Nicolaus

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

Reclamation District No. 1001 Nicolaus

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/02/2019 10/02/2019	Sterling York

LM Start	1.90	Rating **	M	Issue No.	5
LM End	1.90	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.969261°	38.969261°
				-121.504429°	-121.504429°
DWR ID	DWR_RD1001_02_f_2017_5				
Comment Code					
TR : Tree or limb					
Inspector Comment					
The farmer will not allow these stumps to be removed at this time, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_35_5_20190904_00001.jpg



View looking downstream landside at a large stump that needs to be removed.

LM Start	2.28	Rating **	M	Issue No.	52
LM End	2.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.967402°	38.967515°
				-121.510850°	-121.515270°
DWR ID	DWR_RD1001_02_s_2012_52				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1001_35_52_20190904_00016.jpg



View of landside irrigation ditch looking downstream.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/02/2019 10/02/2019	Sterling York

LM Start	2.28	Rating **	M	Issue No.	55
LM End	2.28	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			38.967403 °	38.967403 °
				-121.510953 °	-121.510953 °
DWR ID	22543				
Comment Code					
Inspector Comment					
DS_ID:22543 FS_ID:14008 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/23/2013 - slide gate in inlet pipe on landside - pits on pipe due to corrosion (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Flap gate and concrete U-shaped headwall at outfall on the waterside (WS) end. Slide gate at inlet on the landside (LS) end. (Reclamation District No. 1001). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (Station 67+75)]. FS Date: 5/23/2013					

LM Start	2.28	Rating **	M	Issue No.	55 (cont)
LM End	2.28	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2019_14008_23108.jpg



WS- overview of waterside of the levee.

Photo 2 of 3 : UCIP_FA_2019_14008_23107.jpg



WS- outfall pipe with flap gate in concrete wing wall.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	10/02/2019 10/02/2019	Sterling York

LM Start	2.28	Rating **	M	Issue No.	55 (cont)	
LM End	2.28	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP LMA Responsibility			38.967403 °		38.967403 °
				-121.510953 °		-121.510953 °
DWR ID	22543					
Comment Code						
Inspector Comment						
DS_ID:22543 FS_ID:14008 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/23/2013 - slide gate in inlet pipe on landside - pits on pipe due to corrosion (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Flap gate and concrete U-shaped headwall at outfall on the waterside (WS) end. Slide gate at inlet on the landside (LS) end. (Reclamation District No. 1001). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (Station 67+75)]. FS Date: 5/23/2013						

Photo 3 of 3 : UCIP_FA_2019_14008_23106.jpg



LS- slide gate in inlet pipe structure

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 03 Bear River			Left	12.58
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/5/2019 - 3/5/2019		11/14/2019 - 11/14/2019	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/14/2019 11/14/2019	Sterling York

LM Start	0.01	Rating **	A	Issue No.	8
LM End	12.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.006582°	38.941320°
				-121.375134°	-121.567486°
DWR ID	DWR_RD1001_03_f_2019_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_37_8_20191118_00036.jpg



View looking downstream waterside at the well maintained annual vegetation, Fall 2019.

LM Start	0.01	Rating **	A	Issue No.	6
LM End	12.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.006583 °	38.941320 °
				-121.375136 °	-121.567486 °
DWR ID	DWR_RD1001_03_f_2019_6				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_37_6_20191118_00037.jpg



View looking downstream landside at the well maintained annual vegetation, Fall 2019.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/14/2019 11/14/2019	Sterling York

LM Start	0.88	Rating **	M	Issue No.	911	
LM End	0.88	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			39.006508 °	39.006508 °	
				-121.391086 °	-121.391086 °	
DWR ID	22549					
Comment Code						
Inspector Comment						
DS_ID:22549						
FS_ID:14128						
EP_NO: 958						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 05/21/2013 - slide gate on WS not found- needs abandoned properly. (P. Amatya - DWR UCIP)						
FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation pipe of an unknown material through the levee, at an unknown depth. Slide gate on the waterside (WS) end. (24-inch irrigation pipe authorized under Permit No. 958, 1944 - Frank B. Lichty and Maggie Lichty).						
FS Date: 5/21/2013						

LM Start	0.88	Rating **	M	Issue No.	911 (cont)
LM End	0.88	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_14128_23308.jpg



WS- abandoned CMP on berm of the levee.

Photo 2 of 3 : UCIP_FA_2019_14128_23307.jpg



WS- abandoned CMP and depression around it.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/14/2019 11/14/2019	Sterling York

LM Start	0.88	Rating **	M	Issue No.	911 (cont)	
LM End	0.88	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			39.006508 °	39.006508 °	
				-121.391086 °	-121.391086 °	
DWR ID	22549					
Comment Code						
Inspector Comment						
DS_ID:22549 FS_ID:14128 EP_NO: 958 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/21/2013 - slide gate on WS not found- needs abandoned properly. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation pipe of an unknown material through the levee, at an unknown depth. Slide gate on the waterside (WS) end. (24-inch irrigation pipe authorized under Permit No. 958, 1944 - Frank B. Lichty and Maggie Lichty). FS Date: 5/21/2013						

Photo 3 of 3 : UCIP_FA_2019_14128_23309.jpg



LS- no pipe or structure found on landside.

LM Start	1.16	Rating **	M	Issue No.	3
LM End	1.78	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.005730 °	38.999534 °
				-121.396111 °	-121.404395 °
DWR ID	DWR_RD1001_03_s_2012_3				
Comment Code					
PO : Pole					
Inspector Comment					
Unpermitted Power Poles on the crown along waterside shoulder.					

Photo 1 of 1 : FA_2019_RD1001_37_3_20190904_00001.jpg



View of Power Poles along waterside shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/14/2019 11/14/2019	Sterling York

LM Start	1.85	Rating **	M	Issue No.	912	
LM End	1.85	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.998780 °	38.998780 °	
				-121.405322 °	-121.405322 °	
DWR ID	22561					
Comment Code						
Inspector Comment						
DS_ID:22561 FS_ID:41727 EP_NO: 4505 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/21/2013 Two small steel pipes sleeved through 30-inch CMP may be a compliance issue as slide gate cannot close.- this may have been converted into drainage pipe (?) - big CMP standpipe on WS. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 30-inch concrete encased corrugated metal irrigation pipe through the levee, 11 feet below the crown. Concrete headwall and slide gate at the waterside (WS) toe, removed. Metal walkway on the WS to the slide gate. Pipe discharges into a 48-inch concrete standpipe at the landside (LS) toe. Two vertical pumps. (30-inch concrete encased corrugated metal irrigation pipe authorized under Permit No. 4505, 1964 - State of California, Department of Public Works, Division of Highways). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (Station 949+00), 30-inch steel pipe referenced]. FS Date: 5/21/2013						

LM Start	1.85	Rating **	M	Issue No.	912 (cont)
LM End	1.85	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_41727_23325.jpg



WS- steel walkway, CMP and concrete headwall

Photo 2 of 3 : UCIP_FA_2019_41727_23324.jpg



WS- CMP standpipe, pipes and concrete headwall.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/14/2019 11/14/2019	Sterling York

LM Start	1.85	Rating **	M	Issue No.	912 (cont)	
LM End	1.85	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.998780 °	38.998780 °	
				-121.405322 °	-121.405322 °	
DWR ID	22561					
Comment Code						
Inspector Comment						
DS_ID:22561 FS_ID:41727 EP_NO: 4505 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/21/2013 Two small steel pipes sleeved through 30-inch CMP may be a compliance issue as slide gate cannot close.- this may have been converted into drainage pipe (?) - big CMP standpipe on WS. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 30-inch concrete encased corrugated metal irrigation pipe through the levee, 11 feet below the crown. Concrete headwall and slide gate at the waterside (WS) toe, removed. Metal walkway on the WS to the slide gate. Pipe discharges into a 48-inch concrete standpipe at the landside (LS) toe. Two vertical pumps. (30-inch concrete encased corrugated metal irrigation pipe authorized under Permit No. 4505, 1964 - State of California, Department of Public Works, Division of Highways). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (Station 949+00), 30-inch steel pipe referenced]. FS Date: 5/21/2013						

Photo 3 of 3 : UCIP_FA_2019_41727_23323.jpg



WS- two steel pipes are sleeved through 30-inch CMP.

LM Start	1.87	Rating **	C	Issue No.	28
LM End	1.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.998608 °	38.998608 °
				-121.405570 °	-121.405570 °
DWR ID	DWR_RD1001_03_s_2013_28				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/14/2019 11/14/2019	Sterling York

LM Start	1.87	Rating **	C	Issue No.	29
LM End	1.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.998608 °	38.998608 °
				-121.405570 °	-121.405570 °
DWR ID	DWR_RD1001_03_s _ 2013_29				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	2.28	Rating **	C	Issue No.	30
LM End	2.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.996302 °	38.996302 °
				-121.412285 °	-121.412285 °
DWR ID	DWR_RD1001_03_s _ 2013_30				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	2.58	Rating **	M	Issue No.	16
LM End	2.58	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.995610 °	38.995610 °
				-121.417846 °	-121.417846 °
DWR ID	DWR_RD1001_03_s _ 2017_16				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings at levee toe need to be removed. Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_37_16_20190904_00011.jpg



View of prunings at levee toe landside that need to be removed.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/14/2019 11/14/2019	Sterling York

LM Start	2.59	Rating **	M	Issue No.	913
LM End	2.59	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.995584 °	38.995584 °
				-121.417982 °	-121.417982 °
DWR ID	22562				
Comment Code					
Inspector Comment					
DS_ID:22562					
FS_ID:41722					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 05/21/2013 Verify pipe has been abandoned properly.- pump mounted on the riverbank not found, - butterfly valve in a 30-inch concrete riser at the waterward toe not found,- concrete box on landside not found- a big tree inside concrete standpipe on landside found. (P. Amatya - DWR UCIP)					
FIELD_STRUCT_DESC: *ABANDONED* 22-inch steel pipe through the levee, 18.3 feet below the crown. Pump mounted on the riverbank. Butterfly valve in a 30-inch concrete riser at the waterside (WS) toe. Pipe discharges into a concrete box and concrete standpipe on the landside (LS). Steel plate bolted to the WS end of the pipe during the winter months. (California Packing Corporation). [Additional Reference(s): DWR Levee Log, 1993].					
FS Date: 5/21/2013					

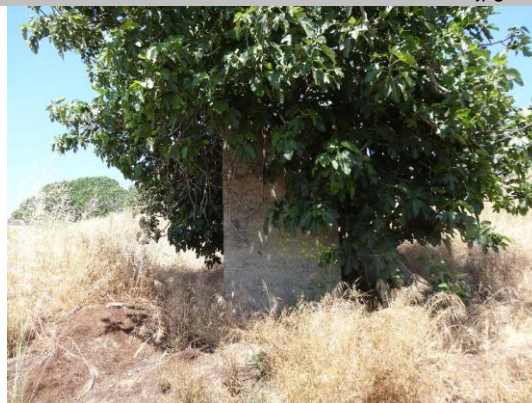
LM Start	2.59	Rating **	M	Issue No.	913 (cont)
LM End	2.59	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_FA_2019_41722_23338.jpg



WS- only a steel pipe found on riverbank.

Photo 2 of 2 : UCIP_FA_2019_41722_23337.jpg



LS- a big tree inside concrete standpipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/14/2019 11/14/2019	Sterling York

LM Start	3.03	Rating **	M	Issue No.	54
LM End	3.03	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.993838 °	38.993838 °
				-121.425829 °	-121.425829 °
DWR ID	DWR_RD1001_03_f_2017_54				
Comment Code					
PO : Pole					
Inspector Comment					
There is a guy wire in the levee slope near the crown.					

Photo 1 of 1 : FA_2019_RD1001_37_54_20190904_00027.jpg



View looking downstream landside of a guy wire into the levee slope.

LM Start	3.46	Rating **	C	Issue No.	17
LM End	3.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.992021°	38.992021°
				-121.433448°	-121.433448°
DWR ID	DWR_RD1001_03_f _ 2018_17				
Comment Code					
DE : Debris					
Inspector Comment					

No Photos

LM Start	3.52	Rating **	A/W	Issue No.	906
LM End	3.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.991745 °	38.991745 °
				-121.434398 °	-121.434398 °
DWR ID	DWR_RD1001_03_s_2012_906				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/14/2019 11/14/2019	Sterling York

LM Start	4.01	Rating **	M	Issue No.	7
LM End	4.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.991261 °	38.991927 °
				-121.443444 °	-121.447765 °
DWR ID	DWR_RD1001_03_s_2012_7				
Comment Code					
MA : Material					
Inspector Comment					
Land owner continues to leave debris and equipment next to levee toe, Fall 2019.					

Photo 1 of 2 : FA_2019_RD1001_37_7_20190904_00003.jpg



Irrigation pipe equipment and plastic cans within the easement of the levee.

LM Start	4.01	Rating **	M	Issue No.	7 (cont)
LM End	4.25	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2019_RD1001_37_7_20190904_00004.jpg



Irrigation pipe equipment and plastic cans within the easement of the levee.

LM Start	4.06	Rating **	A/W	Issue No.	24
LM End	4.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.991370 °	38.991370 °
				-121.444351 °	-121.444351 °
DWR ID	DWR_RD1001_03_f_2016_24				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries bushes have been trimmed up for access and visibility.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/14/2019 11/14/2019	Sterling York

LM Start	4.24	Rating **	M	Issue No.	26
LM End	4.24	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.991926 °	38.991926 °
				-121.447669 °	-121.447669 °
DWR ID	DWR_RD1001_03_s_2017_26				
Comment Code					
LI : Landscape Irrigation					
Inspector Comment					
Remove drip irrigation and trash from levee slope. Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_37_26_20190904_00016.jpg



View of the same drip irrigation and trash on levee slope.

LM Start	4.26	Rating **	C	Issue No.	33
LM End	4.41	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.991981 °	38.991942 °
				-121.447983 °	-121.450668 °
DWR ID	DWR_RD1001_03_s_2017_33				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning have been burned, Fall 2019.					

No Photos

LM Start	4.47	Rating **	M	Issue No.	35
LM End	4.47	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.991864 °	38.991864 °
				-121.451770 °	-121.451770 °
DWR ID	DWR_RD1001_03_s_2017_35				
Comment Code					
LI : Landscape Irrigation					
Inspector Comment					
Remove drip irrigation along levee toe. Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_37_35_20190904_00023.jpg



View looking downstream landside of drip irrigation and trash still on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/14/2019 11/14/2019	Sterling York

LM Start	4.47	Rating **	M	Issue No.	9
LM End	4.69	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.991862°	38.991400°
				-121.451848°	-121.455901°
DWR ID	DWR_RD1001_03_s_2013_9				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings from levee toe, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_37_9_20190904_00005.jpg



There is a still a pile of prunings at the toe.

LM Start	4.65	Rating **	A/W	Issue No.	58
LM End	4.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.991551 °	38.991551 °
				-121.455092 °	-121.455092 °
DWR ID	DWR_RD1001_03_s_2012_58				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry bushes have been trimmed up for access and visibility.					

No Photos

LM Start	4.82	Rating **	A/W	Issue No.	910
LM End	4.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.990773 °	38.990773 °
				-121.458203 °	-121.458203 °
DWR ID	DWR_RD1001_03_s_2012_910				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry bushes have been trimmed up for access and visibility.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/14/2019 11/14/2019	Sterling York

LM Start	7.22	Rating **	A/W	Issue No.	13
LM End	7.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.982737 °	38.982572 °
				-121.501144 °	-121.502797 °
DWR ID	DWR_RD1001_03_f_2018_13				
Comment Code					
Inspector Comment					
2017 Site ID: BER 5.7 L					
Status: Eroding					
2017 Field Notes: Minor new erosion observed.					
Site History: 2008 - Sandy/silty banks with rotational slab failures					
creating near vertical bank with pop-outs due to tree failures. Narrow					
berm.					

Photo 1 of 1 : FA_2019_RD1001_37_13_20190904_00009.jpg



USACE 2013 Photo #1

LM Start	9.31	Rating **	A/W	Issue No.	44
LM End	9.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.970576°	38.970576°
				-121.533334°	-121.533334°
DWR ID	DWR_RD1001_03_f_2016_44				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry bushes have been trimmed up for access and visibility.					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/14/2019 11/14/2019	Sterling York

LM Start	10.36	Rating **	A/W	Issue No.	12
LM End	10.40	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.964583 °	38.964010 °
				-121.544967 °	-121.545228 °
DWR ID	DWR_RD1001_03_f_2018_12				
Comment Code					
Inspector Comment					
2017 Site ID: BER 2.5 L					
Status: Eroding					
2017 Field Notes: Erosion pockets have expanded					
Site History: 2011 - Large section of bank has slumped off. RD has					
flagged and appears to be watching. 2012 - Slopes slightly steeper.					
2013 - Minor new erosion observed.					

Photo 1 of 1 : FA_2019_RD1001_37_12_20190904_00008.jpg



USACE 2013 Photo #1

LM Start	10.49	Rating **	U	Issue No.	11
LM End	10.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.962770 °	38.962770 °
				-121.545741 °	-121.545741 °
DWR ID	DWR_RD1001_03_f_2015_11				
Comment Code					
BU : Building					
Inspector Comment					
Small sheds are at levee toe.					

Photo 1 of 1 : FA_2019_RD1001_37_11_20190904_00007.jpg



View of building at the landside toe.

LM Start	10.53	Rating **	C	Issue No.	37
LM End	10.53	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.962231 °	38.962231 °
				-121.546084 °	-121.546084 °
DWR ID	DWR_RD1001_03_f_2018_37				
Comment Code					
DE : Debris					
Inspector Comment					
Debris has been removed from levee crown, Fall 2019.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/14/2019 11/14/2019	Sterling York

LM Start	11.08	Rating **	A/W	Issue No.	10
LM End	11.16	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.955070 °	38.954227 °
				-121.549528 °	-121.550592 °
DWR ID	DWR_RD1001_03_f_2018_10				
Comment Code					
Inspector Comment					
2017 Site ID: BER 1.9 L					
Status: Eroding					
2017 Field Notes: Minor new erosion observed.					
Site History: 2011 - Large slumped sections of bank. 2012 - Slopes slightly steeper.					

Photo 1 of 1 : FA_2019_RD1001_37_10_20190904_00006.jpg



USACE 2013 Photo #1

LM Start	11.23	Rating **	A/W	Issue No.	22
LM End	11.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.953367°	38.953025°
				-121.551428°	-121.551808°
DWR ID	DWR_RD1001_03_s_2012_22				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Bushes have been trimmed for access and viability.					

No Photos

LM Start	12.18	Rating **	A/W	Issue No.	27
LM End	12.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.946248°	38.946248°
				-121.564220°	-121.564220°
DWR ID	DWR_RD1001_03_s_2012_27				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Bushes have been trimmed for access and visibility.					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	11/14/2019 11/14/2019	Sterling York

LM Start	12.25	Rating **	U	Issue No.	14
LM End	12.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.945301 °	38.945301 °
				-121.564826 °	-121.564826 °
DWR ID	DWR_RD1001_03_s_2019_14				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings and debris at levee toe needs to be removed, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_37_14_20190904_00010.jpg



View looking downstream landside at debris that has been piled up on the levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 04 Feather River			Left	13.27
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/5/2019 - 3/5/2019		11/14/2019 - 11/14/2019	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	0.16	Rating **	A	Issue No.	57
LM End	13.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.938741 °	38.781222 °
				-121.567759 °	-121.605676 °
DWR ID	DWR_RD1001_04_f_2019_57				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_38_57_20191118_00074.jpg



View looking downstream waterside at the well maintained annual vegetation, Fall 2019.

LM Start	0.16	Rating **	A	Issue No.	55
LM End	13.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.938739°	38.781222°
				-121.567758°	-121.605676°
DWR ID	DWR_RD1001_04_f_2019_55				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_38_55_20191118_00075.jpg



View looking downstream landside at the well maintained annual vegetation, Fall 2019.

LM Start	0.37	Rating **	C	Issue No.	64
LM End	0.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.935903 °	38.935903 °
				-121.567250 °	-121.567250 °
DWR ID	DWR_RD1001_04_f_2019_64				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	0.55	Rating **	M	Issue No.	68
LM End	0.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.933299 °	38.933299 °
				-121.567069 °	-121.567069 °
DWR ID	DWR_RD1001_04_s_2016_68				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Repair slope damage caused by ATV, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_38_68_20190904_00034.jpg



View of ruts caused by vehicle on the landside levee slope.

LM Start	0.55	Rating **	C	Issue No.	60
LM End	0.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.933229 °	38.933229 °
				-121.567097 °	-121.567097 °
DWR ID	DWR_RD1001_04_f_2016_60				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Stumps have been removed, Fall 2019.					

No Photos

LM Start	0.55	Rating **	C	Issue No.	61
LM End	0.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.933229 °	38.933229 °
				-121.567097 °	-121.567097 °
DWR ID	DWR_RD1001_04_f_2016_61				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Stumps have been removed, Fall 2019.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	1.06	Rating **	N	Issue No.	69
LM End	1.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.926128 °	38.926128 °
				-121.568241 °	-121.568241 °
DWR ID	DWR_RD1001_04_s_2016_69				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Remove stump from levee toe, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_38_69_20190904_00035.jpg



View of landside toe of a stump that needs to be removed.

LM Start	1.07	Rating **	C	Issue No.	65
LM End	1.07	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.925991 °	38.925991 °
				-121.568282 °	-121.568282 °
DWR ID	DWR_RD1001_04_f_2017_65				
Comment Code					
FW : Firewood					
Inspector Comment					
Firewood from levee crown has been removed, Fall 2019.					

No Photos

LM Start	2.27	Rating **	M	Issue No.	19
LM End	2.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.909790 °	38.909790 °
				-121.574449 °	-121.574449 °
DWR ID	DWR_RD1001_04_s_2013_19				
Comment Code					
PO : Pole					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1001_38_19_20190904_00008.jpg



View of power pole and guy wire on the levee slope.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Reclamation District No. 1001 Nicolaus

No Photos

Photo 1 of 1 : FA_2019_RD1001_38_20_20190904_00009.jpg



View of buildings along the toe within the easement of the landside levee.

Page 4 of 54

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	2.68	Rating **	M	Issue No.	81
LM End	2.68	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.905089 °	38.905089 °
				-121.578477 °	-121.578477 °
DWR ID	22568				
Comment Code					
Inspector Comment					
DS_ID:22568 FS_ID:55162 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 08/21/2019 Crossing remains Non-Urgent, unable to confirm if pipe found on the WS is the same pipe referenced in the DWR Levee Log. Need to contact property owner to determine if pipe still exists. (O. Magana - DWR UCIP)05/16/2013 Dense vegetation on slopes should be cleared. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 4-inch steel swimming pool drainage pipe through the levee, 3 feet below the crown. Open on the waterside (WS) end. Swimming pool on the landside (LS) toe. (Nate Wise). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 12:59:00 PM					

LM Start	2.68	Rating **	M	Issue No.	81 (cont)
LM End	2.68	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55162_24126.jpg



LS- only a private swimming pool found.

Photo 2 of 3 : UCIP_FA_2019_55162_81125.jpg



LS view: overview of LS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	2.68	Rating **	M	Issue No.	81 (cont)	
LM End	2.68	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.905089 °	38.905089 °	
				-121.578477 °	-121.578477 °	
DWR ID	22568					
Comment Code						
Inspector Comment						
DS_ID:22568 FS_ID:55162 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 08/21/2019 Crossing remains Non-Urgent, unable to confirm if pipe found on the WS is the same pipe referenced in the DWR Levee Log. Need to contact property owner to determine if pipe still exists. (O. Magana - DWR UCIP)05/16/2013 Dense vegetation on slopes should be cleared. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 4-inch steel swimming pool drainage pipe through the levee, 3 feet below the crown. Open on the waterside (WS) end. Swimming pool on the landside (LS) toe. (Nate Wise). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 12:59:00 PM						

Photo 3 of 3 : UCIP_FA_2019_55162_81126.jpg



Overview of levee crown where pipe should cross the levee.

LM Start	2.70	Rating **	M	Issue No.	32
LM End	2.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.904898 °	38.904898 °
				-121.578829 °	-121.578829 °
DWR ID	DWR_RD1001_04_f_2016_32				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1001_38_32_20190904_00015.jpg



View of shed at landside levee toe in the easement.

* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable
 M : Minimally Acceptable
 U : Unacceptable
 N : Not Inspected/Rated
 C : Corrected
 A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	3.16	Rating **	M	Issue No.	48
LM End	3.19	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.899835 °	38.899499 °
				-121.583986 °	-121.584462 °
DWR ID	DWR_RD1001_04_s_2017_48				
Comment Code					
FE : Fence					
Inspector Comment					
Fence and landscaping have been placed by the land owner and still exist on levee slope and needs to be removed, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_38_48_20190904_00023.jpg



View looking downstream landside of fence and landscaping that have been placed by the land owner on levee slope and needs to be removed, Spring 2018.

LM Start	3.17	Rating **	M	Issue No.	82	
LM End	3.17	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.899654 °	38.899654 °	
				-121.584225 °	-121.584225 °	
DWR ID	22574					
Comment Code						
Inspector Comment						
DS_ID:22574 FS_ID:55163 EP_NO: 2163 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/21/2019 Crossing has been updated to Non-Urgent, no pipe was found during inspection. Unable to determine the status of the pipe through the levee. During river side survey no evidence of pipe was found. Recommend conducting a geophysical study through this area to determine if pipe is still present. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 6.2 feet below the crown. Portable pump mounted on the riverbank during the summer months. Siphon breaker on the landward slope. Pipe discharges into a 24-inch concrete standpipe at the landward toe. No control valves installed. (12-inch steel pipe authorized under Permit No. 2163, 1955 - Leo and Shirley Muller). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 141, Part 2, 1960, Revised 29 Dec 2016, 12-inch pipe (HLM 3.24)]. FS Date: 8/21/2019 1:00:00 PM						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	3.19	Rating **	M	Issue No.	83	
LM End	3.19	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.899476 °	38.899476 °	
				-121.584487 °	-121.584487 °	
DWR ID	22570					
Comment Code						
Inspector Comment						
DS_ID:22570 FS_ID:55164 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/21/2019 No pipe found during river survey or land inspection. Need to determine the status of pipe. Recommend geophysical study through this area to determine if pipe is still present. Unable to confirm if pipe truly crosses levee at 0.5 feet below the crown. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 7-inch steel pipe of an unknown purpose through the levee, 0.5 feet below the crown. Open on both ends for electrical wires to the pump on the waterside (WS). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 141, Part 2, 1960, Revised 29 Dec 2016, 7-inch pipe (HLM 3.25)]. FS Date: 8/21/2019 1:00:00 PM						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	3.21	Rating **	M	Issue No.	84	
LM End	3.21	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.899279 °	38.899279 °	
				-121.584752 °	-121.584752 °	
DWR ID	22569					
Comment Code						
Inspector Comment						
DS_ID:22569 FS_ID:55165 EP_NO: 3511 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/21/2019 Crossing has been updated to Non-Urgent, no pipe was found during inspection. DWR Levee Log dated from 1993 indicated that line was abandoned. No signs are present of abandoned conduit. Need to determine the status of the pipe. Recommend geophysical study to determine if line is still present through the levee. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: USILF communications conduit of an unknown size or material through the levee, 3 feet below the crown. (Installation of an underground cable authorized under Permit No. 3511, 1960 - United States Army Engineer District, Sacramento, Corps of Engineers). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:00:00 PM						

No Photos

LM Start	4.06	Rating **	C	Issue No.	51
LM End	4.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.892820 °	38.892583 °
				-121.598003 °	-121.598575 °
DWR ID	DWR_RD1001_04_s_2017_51				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	4.60	Rating **	A/W	Issue No.	33
LM End	4.65	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.889127 °	38.888603 °
				-121.606858 °	-121.607713 °
DWR ID	DWR_RD1001_04_f_2018_33				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 7.7 L					
Status: Eroding New					
2017 Field Notes: Erosion along bank appears to be due to rapid drawdown condition. Lower bank cobbles are unraveling. Tree popout at upstream end.					
Site History:					

No Photos

LM Start	4.89	Rating **	U	Issue No.	85
LM End	4.89	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.886330 °	38.886330 °
				-121.611104 °	-121.611104 °
DWR ID	22571				
Comment Code					
Inspector Comment					
DS_ID:22571 FS_ID:55167 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Crossing has been updated from No Action Needed to Urgent due to a scour section found at the WS toe. Pipe was running during inspection, no leaks were observed on the WS or LS. From the river survey, a scour section was visible at WS toe. Recommend monitoring site and coordinating with LMA to evaluate extent of damage. (O. Magana - DWR UCIP)05/16/2013 - working during field survey (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, 3.5 feet below the crown. 40-horsepower slant pump mounted on the waterside (WS) slope. Siphon breaker on the landside (LS) slope. Pipe discharges into a 36-inch concrete standpipe on the LS. 1.25-inch electrical conduit through the levee, 3 feet below the crown. (no permit found authorizing 18-inch pipe; 40-horsepower slant pump and reinstallation of LS pipe authorized under Permit No. 5342, 1966 - Esther Scheiber). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:01:00 PM					

Photo 1 of 3 : UCIP_FA_2019_55167_24121.jpg



WS- slanted pump and pipe on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	4.89	Rating **	U	Issue No.	85 (cont)	
LM End	4.89	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.886330 °	38.886330 °	
				-121.611104 °	-121.611104 °	
DWR ID	22571					
Comment Code						
Inspector Comment						
DS_ID:22571 FS_ID:55167 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Crossing has been updated from No Action Needed to Urgent due to a scour section found at the WS toe. Pipe was running during inspection, no leaks were observed on the WS or LS. From the river survey, a scour section was visible at WS toe. Recommend monitoring site and coordinating with LMA to evaluate extent of damage. (O. Magana - DWR UCIP)05/16/2013 - working during field survey (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 18-inch steel irrigation pipe through the levee, 3.5 feet below the crown. 40-horsepower slant pump mounted on the waterside (WS) slope. Siphon breaker on the landside (LS) slope. Pipe discharges into a 36-inch concrete standpipe on the LS. 1.25-inch electrical conduit through the levee, 3 feet below the crown. (no permit found authorizing 18-inch pipe; 40-horsepower slant pump and reinstallation of LS pipe authorized under Permit No. 5342, 1966 - Esther Scheiber). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:01:00 PM						

LM Start	4.89	Rating **	U	Issue No.	85 (cont)
LM End	4.89	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55167_24120.jpg



WS- steel pipe daylights at levee slope.

Photo 3 of 3 : UCIP_FA_2019_55167_24122.jpg



LS- concrete stand pipe at levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	5.18	Rating **	C	Issue No.	70
LM End	5.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.882301 °	38.882301 °	
			-121.611296 °	-121.611296 °	
DWR ID	DWR_RD1001_04_f_2017_70				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	5.22	Rating **	C	Issue No.	78
LM End	5.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.881768 °	38.881768 °	
			-121.611302 °	-121.611302 °	
DWR ID	DWR_RD1001_04_s_2016_78				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	5.43	Rating **	M	Issue No.	86
LM End	5.43	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.878705° -121.612161°	38.878705° -121.612161°
DWR ID	22582				
Comment Code					
Inspector Comment					
DS_ID:22582 FS_ID:55964 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/21/2019 Crossing has been updated to Non-Urgent, unable to determine the status of the pipe through the levee. No signs of pipe were found during inspection. No signs of pipe were found during river survey. Also DWR Geophysical Study did not confirm pipe crossing, record will remain in database until a future levee improvement project can confirm status of pipe through the levee. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, invert elevation 49.9 feet, USED Datum. Gate valve on the waterside (WS). [Additional Reference(s): USACE Sacramento O&M Manual 141.1, August 1955, (RM 7.0)]. FS Date: 8/21/2019 1:01:00 PM					

No Photos

LM Start	5.55	Rating **	A/W	Issue No.	79
LM End	5.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.877256° -121.613073°	38.877256° -121.613073°
DWR ID	DWR_RD1001_04_s_2016_79				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	5.61	Rating **	A/W	Issue No.	35
LM End		Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.876374 °	°
				-121.613425 °	°
DWR ID	LMA-19				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:139					
Site Designation:LMA-19					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:6/6/2017					
Notes: Several small erosion sites along 2 miles.					

LM Start	5.61	Rating **	A/W	Issue No.	35 (cont)
LM End		Issue Type +	Ma	Location *	WS

Photo 1 of 3 : LEVAL_FA_2019_139_1148.jpg



Photo 2 of 3 : LEVAL_FA_2019_139_1154.jpg



*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	5.61	Rating **	A/W	Issue No.	35 (cont)	
LM End		Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.876374 °		°
				-121.613425 °		°
DWR ID	LMA-19					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:139						
Site Designation:LMA-19						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:6/6/2017						
Notes: Several small erosion sites along 2 miles.						

Photo 3 of 3 : LEVAL_FA_2019_139_1155.jpg



LM Start	5.71	Rating **	M	Issue No.	27
LM End	5.71	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.874984 °	38.874984 °
				-121.614242 °	-121.614242 °
DWR ID	DWR_RD1001_04_s_2015_27				
Comment Code					
PO : Pole					
Inspector Comment					
Remove pole on levee slope.					

Photo 1 of 1 : FA_2019_RD1001_38_27_20190904_00011.jpg



View of pole on landside, no lines connected to it.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	5.78	Rating **	M	Issue No.	87	
LM End	5.78	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.874113 °	38.874113 °	
				-121.614846 °	-121.614846 °	
DWR ID	22573					
Comment Code						
Inspector Comment						
DS_ID:22573 FS_ID:55170 EP_NO: 10389-A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Crossing remains Non-Urgent; Work still pending (logged under maintenance compliance issue), project is waiting on Status of Cultural report for Encroachment Permit Application No. 10389-A-1. Work involves modifying existing pumping plant removing and replacing existing 12-inch dia pressurized water pipe and electrical conduit, installing a 5-foot x 5-foot vault housing, new siphon breaker and butterfly valve, and name change. (O. Magana - DWR UCIP)01/24/2019 Project modification logged under Permit 10389-A-1 proposes removing and replacing existing 12-inch pressurized water pipe and conduit. Need to determine construction start date and obtain as-built drawing for new pipe. Pending actions: need to issue new UCIP dsid for new pipe and retire current dsid 22573. (O. Magana - DWR UCIP) 05/16/2013 - water leakage causes erosion on LS slope.- may be pressure breaker valve not closed properly on LS.- a 36-inch concrete standpipe at the landward toe not found. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 12-inch irrigation discharge pipe of an unknown material through the levee, 10 feet below the crown. 30-horsepower slant pump on the riverbank. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. Pipe discharges into a 36-inch concrete standpipe at the LS toe. Pipe installed by USACE in 1963. Switch panel and service pole at the LS toe. (12-inch pipe and a 30-horsepower slant pump authorized under Permit No. 10389-A, 1974 - Pluma Orchards, also includes removal of existing pipe). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:06:00 PM						

Photo 1 of 3 : UCIP_FA_2019_55170_24107.jpg



WS- slanted pump station on steel platform on levee berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	5.78	Rating **	M	Issue No.	87 (cont)	
LM End	5.78	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.874113 °	38.874113 °	
				-121.614846 °	-121.614846 °	
DWR ID	22573					
Comment Code						
Inspector Comment						
DS_ID:22573 FS_ID:55170 EP_NO: 10389-A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Crossing remains Non-Urgent; Work still pending (logged under maintenance compliance issue), project is waiting on Status of Cultural report for Encroachment Permit Application No. 10389-A-1. Work involves modifying existing pumping plant removing and replacing existing 12-inch dia pressurized water pipe and electrical conduit, installing a 5-foot x 5-foot vault housing, new siphon breaker and butterfly valve, and name change. (O. Magana - DWR UCIP)01/24/2019 Project modification logged under Permit 10389-A-1 proposes removing and replacing existing 12-inch pressurized water pipe and conduit. Need to determine construction start date and obtain as-built drawing for new pipe. Pending actions: need to issue new UCIP dsid for new pipe and retire current dsid 22573. (O. Magana - DWR UCIP) 05/16/2013 - water leakage causes erosion on LS slope.- may be pressure breaker valve not closed properly on LS.- a 36-inch concrete standpipe at the landward toe not found. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 12-inch irrigation discharge pipe of an unknown material through the levee, 10 feet below the crown. 30-horsepower slant pump on the riverbank. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. Pipe discharges into a 36-inch concrete standpipe at the LS toe. Pipe installed by USACE in 1963. Switch panel and service pole at the LS toe. (12-inch pipe and a 30-horsepower slant pump authorized under Permit No. 10389-A, 1974 - Pluma Orchards, also includes removal of existing pipe). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:06:00 PM						

Photo 2 of 3 : UCIP_FA_2019_55170_24106.jpg



WS- inlet pipe on the river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	5.78	Rating **	M	Issue No.	87 (cont)	
LM End	5.78	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			38.874113 °		38.874113 °
				-121.614846 °		-121.614846 °
DWR ID	22573					
Comment Code						
Inspector Comment						
DS_ID:22573 FS_ID:55170 EP_NO: 10389-A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Crossing remains Non-Urgent; Work still pending (logged under maintenance compliance issue), project is waiting on Status of Cultural report for Encroachment Permit Application No. 10389-A-1. Work involves modifying existing pumping plant removing and replacing existing 12-inch dia pressurized water pipe and electrical conduit, installing a 5-foot x 5-foot vault housing, new siphon breaker and butterfly valve, and name change. (O. Magana - DWR UCIP)01/24/2019 Project modification logged under Permit 10389-A-1 proposes removing and replacing existing 12-inch pressurized water pipe and conduit. Need to determine construction start date and obtain as-built drawing for new pipe. Pending actions: need to issue new UCIP dsid for new pipe and retire current dsid 22573. (O. Magana - DWR UCIP) 05/16/2013 - water leakage causes erosion on LS slope.- may be pressure breaker valve not closed properly on LS.- a 36-inch concrete standpipe at the landward toe not found. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 12-inch irrigation discharge pipe of an unknown material through the levee, 10 feet below the crown. 30-horsepower slant pump on the riverbank. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. Pipe discharges into a 36-inch concrete standpipe at the LS toe. Pipe installed by USACE in 1963. Switch panel and service pole at the LS toe. (12-inch pipe and a 30-horsepower slant pump authorized under Permit No. 10389-A, 1974 - Pluma Orchards, also includes removal of existing pipe). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:06:00 PM						

Photo 3 of 3 : UCIP_FA_2019_55170_24105.jpg



Enter photo 3 description or comment here.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	5.80	Rating **	A/W	Issue No.	28
LM End	5.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.874113 °	38.872373 °
				-121.615380 °	-121.616504 °
DWR ID	DWR_RD1001_04_f_2018_28				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 6.6 L					
Status: Eroding					
2017 Field Notes: Sandy bank slope is unraveling.					
Site History: 2011 - Erosion pockets from tree popouts. Sections of the lower bank have slumped off. 2013 - Scallops from tree popouts no longer visible on site. Minor new erosion at the middle of the bank.					
2015 - Fres erosion from human usage.					

Photo 1 of 1 : FA_2019_RD1001_38_28_20190904_00012.jpg



USACE 2013 Photo #1

LM Start	6.39	Rating **	U	Issue No.	17
LM End	6.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.866032 °	38.865195 °
				-121.619489 °	-121.620017 °
DWR ID	DWR_RD1001_04_s_2012_17				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Home owners landscaping should be removed, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_38_17_20190904_00006.jpg



View of landscaping on the landside shoulder and slope looking downstream.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	6.42	Rating **	A/W	Issue No.	18
LM End	6.51	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.865875 °	38.864706 °
				-121.619983 °	-121.620813 °
DWR ID	DWR_RD1001_04_f_2018_18				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 6.0 L					
Status: Critical					
2017 Field Notes: Upgraded to critical, entire bank slope is slumping, with near vertical face					
Site History: 2011 - Tall slumping sections. Scour around trees has exposed most of the roots. 2016 - Recent large slope failure observed.					

Photo 1 of 1 : FA_2019_RD1001_38_18_20190904_00007.jpg



USACE 2013 Photo #1

LM Start	6.44	Rating **	M	Issue No.	88
LM End	6.44	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.865387 °	38.865387 °
				-121.619854 °	-121.619854 °
DWR ID	22589				
Comment Code					
Inspector Comment					
DS_ID:22589 FS_ID:55965 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/21/2019 Crossing has been updated to Non-Urgent, no pipe was found through levee. No pipe or any appurtenances were found at this location. DWR Geophysical Study did not confirm presence of pipe, record will remain in database until a future levee improvement project or records are made available to determine the status of the pipe. (O. Magana - DWR UCIP)08/14/2019 Permit No. 2062 is associated with dsid 22589 and not dsid 22586 per CVFPB - Alex Acosta. Permit records indicate pipe was installed under HLM 6.84 U4 RD1001 this is believed to be an incorrect reference. Property owner at HLM 6.84 mentioned that the Domingos Rocha and Domingos E. Toledo property is associated with approximate location HLM 6.504. DMP Geophysical Evaluation report did not confirm pipe; pipe not found. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through the levee, invert elevation 40.1 feet, USED Datum. Butterfly valve on the waterside (WS). (14-inch irrigation discharge pipe and pump authorized under Permit No. 2062, 1955 - Domingos Rocha and Domingos Ernest Toledo). [Additional Reference(s): USACE Sacramento O&M Manual 141.1, August 1955, (RM 6.0)]. FS Date: 8/21/2019 1:06:00 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	6.51	Rating **	M	Issue No.	89	
LM End	6.51	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.864547 °	38.864547 °	
				-121.620435 °	-121.620435 °	
DWR ID	22581					
Comment Code						
Inspector Comment						
DS_ID:22581 FS_ID:54607 EP_NO: 12822 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/21/2019 Crossing has been updated to Non-Urgent, unable to determine the status of the pipe through the levee. Pipe was not found during inspection by land or river. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: Irrigation discharge pipe of an unknown size or material through the levee, at an unknown depth. Slant pump with walkway and platform on the riverbank. (Irrigation discharge pipe and slant pump with walkway authorized under Permit No. 12822, 1979 - Anderson Farms Company, no pipe size referenced). FS Date: 8/21/2019 1:06:00 PM						

No Photos

LM Start	6.57	Rating **	A/W	Issue No.	15
LM End	6.77	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.863946 °	38.861558 °
				-121.621388 °	-121.623316 °
DWR ID	DWR_RD1001_04_f_2018_15				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 5.8 L					
Status: Eroding					
2017 Field Notes: slope is not stable enough to maintain vegetation growth, new erosion					
Site History: 2011 - Large slumped sections on the lower bank. 2012 - New cracks observed.					

Photo 1 of 1 : FA_2019_RD1001_38_15_20190904_00005.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	6.77	Rating **	M	Issue No.	90
LM End	6.77	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.861382 °	38.861382 °
				-121.622947 °	-121.622947 °
DWR ID	22591				
Comment Code					
Inspector Comment					
DS_ID:22591					
FS_ID:54608					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: 08/21/2019 Crossing has been updated to Non-Urgent, unable to determine the status of the pipe through levee. Pipe not found during inspection via land or river. (O. Magana - DWR UCIP)					
FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe through the levee, 6.7 feet below the crown. Siphon breakers on the landside (LS) shoulder. Pipe discharges into a 48-inch concrete standpipe on the LS. (Installed in 1969 by USACE). [Additional Reference(s): DWR Levee Log, 1993].					
FS Date: 8/21/2019 1:06:00 PM					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	6.77	Rating **	U	Issue No.	91
LM End	6.77	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.861336 °	38.861336 °
				-121.622985 °	-121.622985 °
DWR ID	22587				
Comment Code					
Inspector Comment					
DS_ID:22587 FS_ID:55172 EP_NO: 3903 Repair Type: Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Crossing has been updated from No Action Needed to Urgent, leaky pipe visible on LS. Open cut on LS visible from LS shoulder. Owner is coordinating with CVFPB on emergency repair. Pipe has failed and is no longer in use. Refer to CVFPB Enf ID 15536 for further coordination details. (O. Magana - DWR UCIP)08/14/2019 Pipe is under enforcement action and pipe is expected to be replaced under emergency repair. Contact Alex Acosta with CVFPB for updates. (O. Magana - DWR UCIP) 05/16/2013 - working during field survey- found steel standpipe instead of concrete standpipe.- siphon breaker on the waterward side not found. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 20-inch welded steel irrigation discharge pipe through the levee, 8.2 feet below the crown. 16-inch propeller pump and platform on the riverbank. Pressure breakers on the landside (LS) corrugated metal pipe (CMP) riser. Pipe discharges into a steel standpipe in the LS toe. (20-inch steel irrigation discharge pipe and 16-inch propeller pump authorized under Permit No. 3903, 1962 - White Oak Ranch). FS Date: 8/21/2019 1:07:00 PM					

LM Start	6.77	Rating **	U	Issue No.	91 (cont)
LM End	6.77	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55172_24060.jpg



WS- pump station on steel structure on river bank.

Photo 2 of 3 : UCIP_FA_2019_55172_24064.jpg



WS- power cable also penetrates the levee. Power cable box near steel walkway

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

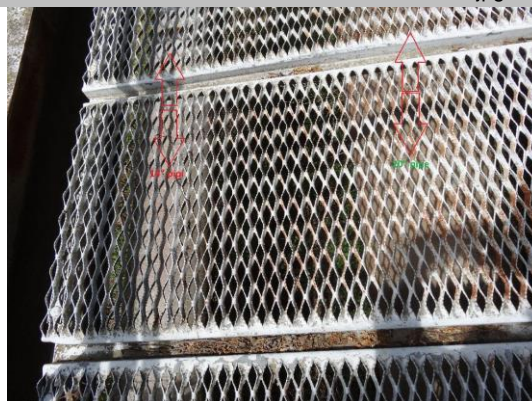
Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	6.77	Rating **	U	Issue No.	91 (cont)	
LM End	6.77	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.861336 °	38.861336 °	
				-121.622985 °	-121.622985 °	
DWR ID	22587					
Comment Code						
Inspector Comment						
DS_ID:22587 FS_ID:55172 EP_NO: 3903 Repair Type: Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Crossing has been updated from No Action Needed to Urgent, leaky pipe visible on LS. Open cut on LS visible from LS shoulder. Owner is coordinating with CVFPB on emergency repair. Pipe has failed and is no longer in use. Refer to CVFPB Enf ID 15536 for further coordination details. (O. Magana - DWR UCIP)08/14/2019 Pipe is under enforcement action and pipe is expected to be replaced under emergency repair. Contact Alex Acosta with CVFPB for updates. (O. Magana - DWR UCIP) 05/16/2013 - working during field survey- found steel standpipe instead of concrete standpipe.- siphon breaker on the waterward side not found. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 20-inch welded steel irrigation discharge pipe through the levee, 8.2 feet below the crown. 16-inch propeller pump and platform on the riverbank. Pressure breakers on the landside (LS) corrugated metal pipe (CMP) riser. Pipe discharges into a steel standpipe in the LS toe. (20-inch steel irrigation discharge pipe and 16-inch propeller pump authorized under Permit No. 3903, 1962 - White Oak Ranch). FS Date: 8/21/2019 1:07:00 PM						

Photo 3 of 3 : UCIP_FA_2019_55172_24063.jpg



WS- pipes visible through steel walkway deck.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	6.77	Rating **	U	Issue No.	92
LM End	6.77	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.861336 °	38.861336 °
				-121.622985 °	-121.622985 °
DWR ID	22586				

Comment Code

Inspector Comment

DS_ID:22586

FS_ID:55173

EP_NO: 2062

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 09/16/2019 Crossing has been updated from No Action Needed to Urgent, leaky pipe found. Record has been updated to reflect authorizing permit for the existing 14-inch pipe and new 14-inch vertical propeller pump. Pipe and pump were authorized under Permit Number 1388 in 1949, see page 12 of 12 which shows correct historic levee mile noted as "2-28-62 Now Marked Unit 4 - 6.87". (O. Magana - DWR UCIP)08/21/2019 Pipe is being addressed under CVFPB Enforcement ID 15536. Pipe appears to be leaking near the WS crown hinge point as water is beginning to penetrate. Pipe was running during inspection. (O. Magana - DWR UCIP)08/14/2019 Permit No. 2062 was incorrectly referenced per CVFPB - Alex Acosta. The correct pipe associated with Permit No. 2062 is dsid 22589. This pipe (dsid 22586) does not have a permit currently assigned to it. Pipe is under enforcement action and pipe is expected to be replaced under emergency repair. 14-inch pipe is referenced in Permit No. 3903 records. (O. Magana - DWR UCIP)

05/16/2013 - working during field survey- found steel standpipe instead of concrete standpipe. - butterfly valve on the waterward side not found. (P. Amatya - DWR UCIP)

FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, 4 feet below the crown. Pump mounted on a piling structure in the channel. Pressure valve on the landside (LS) slope. Pipe discharges into a steel standpipe on the LS toe. (14-inch pipe and pump were authorized under Permit No. 1388, 1949 - Mrs Marie Van Antwerp; existing 14-inch pipe with 25 HP vertical pump referenced in Permit No. 3903, 1962 - White Oak Ranch) [Additional Reference(s): DWR Levee Log, 1993].

FS Date: 8/21/2019 1:07:00 PM

Photo 1 of 3 : UCIP_FA_2019_55173_24065.jpg



WS- pump station in steel structure on river bank.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	En : Enforcement
	N : Not Inspected/Rated	
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	6.77	Rating **	U	Issue No.	92 (cont)
LM End	6.77	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.861336 °	38.861336 °
				-121.622985 °	-121.622985 °
DWR ID	22586				

Comment Code

Inspector Comment

DS_ID:22586
FS_ID:55173
EP_NO: 2062
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 09/16/2019 Crossing has been updated from No Action Needed to Urgent, leaky pipe found. Record has been updated to reflect authorizing permit for the existing 14-inch pipe and new 14-inch vertical propeller pump. Pipe and pump were authorized under Permit Number 1388 in 1949, see page 12 of 12 which shows correct historic levee mile noted as "2-28-62 Now Marked Unit 4 - 6.87". (O. Magana - DWR UCIP)08/21/2019 Pipe is being addressed under CVFPB Enforcement ID 15536. Pipe appears to be leaking near the WS crown hinge point as water is beginning to penetrate. Pipe was running during inspection. (O. Magana - DWR UCIP)08/14/2019 Permit No. 2062 was incorrectly referenced per CVFPB - Alex Acosta. The correct pipe associated with Permit No. 2062 is dsid 22589. This pipe (dsid 22586) does not have a permit currently assigned to it. Pipe is under enforcement action and pipe is expected to be replaced under emergency repair. 14-inch pipe is referenced in Permit No. 3903 records. (O. Magana - DWR UCIP)
05/16/2013 - working during field survey- found steel standpipe instead of concrete standpipe. - butterfly valve on the waterward side not found. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, 4 feet below the crown. Pump mounted on a piling structure in the channel. Pressure valve on the landside (LS) slope. Pipe discharges into a steel standpipe on the LS toe. (14-inch pipe and pump were authorized under Permit No. 1388, 1949 - Mrs Marie Van Antwerp; existing 14-inch pipe with 25 HP vertical pump referenced in Permit No. 3903, 1962 - White Oak Ranch) [Additional Reference(s): DWR Levee Log, 1993].
FS Date: 8/21/2019 1:07:00 PM

Photo 2 of 3 : UCIP_FA_2019_55173_24069.jpg



WS- power cable near steel walkway. Power cable penetrates through the levee.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

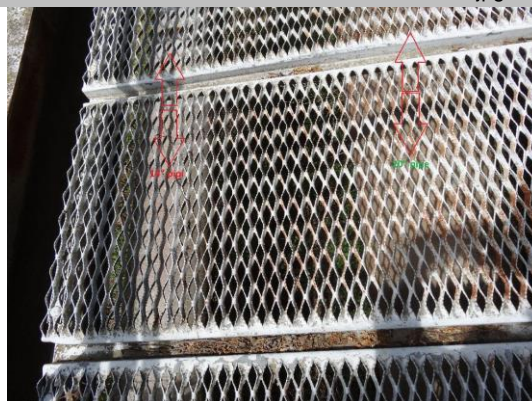
LM Start	6.77	Rating **	U	Issue No.	92 (cont)
LM End	6.77	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.861336 °	38.861336 °
				-121.622985 °	-121.622985 °
DWR ID	22586				

Comment Code

Inspector Comment

DS_ID:22586
FS_ID:55173
EP_NO: 2062
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 09/16/2019 Crossing has been updated from No Action Needed to Urgent, leaky pipe found. Record has been updated to reflect authorizing permit for the existing 14-inch pipe and new 14-inch vertical propeller pump. Pipe and pump were authorized under Permit Number 1388 in 1949, see page 12 of 12 which shows correct historic levee mile noted as "2-28-62 Now Marked Unit 4 - 6.87". (O. Magana - DWR UCIP)08/21/2019 Pipe is being addressed under CVFPB Enforcement ID 15536. Pipe appears to be leaking near the WS crown hinge point as water is beginning to penetrate. Pipe was running during inspection. (O. Magana - DWR UCIP)08/14/2019 Permit No. 2062 was incorrectly referenced per CVFPB - Alex Acosta. The correct pipe associated with Permit No. 2062 is dsid 22589. This pipe (dsid 22586) does not have a permit currently assigned to it. Pipe is under enforcement action and pipe is expected to be replaced under emergency repair. 14-inch pipe is referenced in Permit No. 3903 records. (O. Magana - DWR UCIP)
05/16/2013 - working during field survey- found steel standpipe instead of concrete standpipe. - butterfly valve on the waterward side not found. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, 4 feet below the crown. Pump mounted on a piling structure in the channel. Pressure valve on the landside (LS) slope. Pipe discharges into a steel standpipe on the LS toe. (14-inch pipe and pump were authorized under Permit No. 1388, 1949 - Mrs Marie Van Antwerp; existing 14-inch pipe with 25 HP vertical pump referenced in Permit No. 3903, 1962 - White Oak Ranch) [Additional Reference(s): DWR Levee Log, 1993].
FS Date: 8/21/2019 1:07:00 PM

Photo 3 of 3 : UCIP_FA_2019_55173_24068.jpg



WS- steel pipes visible through steel walkway.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	7.08	Rating **	A/W	Issue No.	52
LM End	7.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.857574 °	38.857574 °
				-121.626083 °	-121.626083 °
DWR ID	DWR_RD1001_04_s_2017_52				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry bush has been trimmed for access and visibility.					

No Photos

LM Start	7.17	Rating **	M	Issue No.	93	
LM End	7.17	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.856429 °	38.856429 °	
				-121.626756 °	-121.626756 °	
DWR ID	22575					
Comment Code						
Inspector Comment						
DS_ID:22575 FS_ID:55174 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Non-Urgent, permit missing. No issues observed during inspection, however, no permit has been found authorizing crossing. Need to find owner for this pipe. (O. Magana - DWR UCIP)05/16/2013 Water Leaking from vent on WS at inlet pipe.- pipes exposed on both slopes of the levee.- butterfly valve not found. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 12-inch irrigation discharge pipe of an unknown material through the levee, 4.7 feet below the crown. Slant pump mounted on a steel structure on the riverbank. Butterfly valve on the waterside (WS). Pipe discharges into a 36-inch concrete standpipe at the landside (LS) toe. (Toledo). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:07:00 PM						

Photo 1 of 3 : UCIP_FA_2019_55174_24041.jpg



WS- slanted pump station, pipe, power pole on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	7.17	Rating **	M	Issue No.	93 (cont)	
LM End	7.17	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.856429 °	38.856429 °	
				-121.626756 °	-121.626756 °	
DWR ID	22575					
Comment Code						
Inspector Comment						
DS_ID:22575 FS_ID:55174 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Non-Urgent, permit missing. No issues observed during inspection, however, no permit has been found authorizing crossing. Need to find owner for this pipe. (O. Magana - DWR UCIP)05/16/2013 Water Leaking from vent on WS at inlet pipe.- pipes exposed on both slopes of the levee.- butterfly valve not found. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 12-inch irrigation discharge pipe of an unknown material through the levee, 4.7 feet below the crown. Slant pump mounted on a steel structure on the riverbank. Butterfly valve on the waterside (WS). Pipe discharges into a 36-inch concrete standpipe at the landside (LS) toe. (Toledo). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:07:00 PM						

LM Start	7.17	Rating **	M	Issue No.	93 (cont)
LM End	7.17	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55174_24040.jpg



WS- water leaking from air vent on inlet pipe.

Photo 3 of 3 : UCIP_FA_2019_55174_24044.jpg



WS- steel pipe exposed on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	7.47	Rating **	A/W	Issue No.	14
LM End	7.79	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.852394 °	38.848004 °
				-121.629231 °	-121.630873 °
DWR ID	DWR_RD1001_04_f_2018_14				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 5.0 L Status: Critical 2017 Field Notes: Upgraded to critical, significant new erosion, entire bank slope is vertical with non cohesive soils. Site History: 2000 - Steep bank off berm with some slumps and fallen trees, continued erosion. 2002 - Site lengthened upstream and downstream due to vertical bank along most of the reach. 2010 - Site extended upstream. 2011 - Minimal new erosion. 2012 - Site extended on the upstream end, new tree pop-out, and bank erosion continues to worsen. 2013 - Minor new erosion at the toe and top of bank.					

Photo 1 of 1 : FA_2019_RD1001_38_14_20190904_00004.jpg



USACE 2013 Photo #1

LM Start	7.60	Rating **	A/W	Issue No.	36
LM End	7.60	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.850521 °	38.850521 °
				-121.629423 °	-121.629423 °
DWR ID	DWR_RD1001_04_f_2015_36				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Ramp has vertical cut into the levee prism.					

Photo 1 of 1 : FA_2019_RD1001_38_36_20190904_00020.jpg



View of vertical cut for ramp in the landside levee slope looking upstream.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	7.92	Rating **	U	Issue No.	94	
LM End	7.92	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.846029 °	38.846029 °	
				-121.631005 °	-121.631005 °	
DWR ID	22576					
Comment Code						
Inspector Comment						
DS_ID:22576 FS_ID:55175 EP_NO: 2931 Repair Type: Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Urgent due to an unauthorized cut on the WS. Unauthorized open cut visible on WS berm. CMP riser located on the LS toe has been replaced. Need to contact owner to determine if CVFPB has been contacted for the open cut and concrete work proposed on WS berm. DWR Levee Inspector, S. York, has been notified of the issue. (O. Magana - DWR UCIP)05/16/2013 - working during field survey- pipe expose on LS. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe through the levee, 4.9 feet below the crown. 18-inch, 50-horsepower slant pump mounted on a steel structure on the riverbank. Siphon breaker in a 6-inch steel riser on the landside (LS) shoulder. Pipe discharges into a 36-inch corrugated metal pipe (CMP) riser on the LS slope. (18-inch, 50-horsepower slant pump and irrigation discharge pipe authorized under Permit No. 2931, 1958 - Aileen Marty). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:08:00 PM						

LM Start	7.92	Rating **	U	Issue No.	94 (cont)
LM End	7.92	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55175_24033.jpg



WS- slanted pump station with steel structure, and service pole on river bank.

Photo 2 of 3 : UCIP_FA_2019_55175_24032.jpg



WS- inlet steel pipe and main steel pipe in pump station on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	7.92	Rating **	U	Issue No.	94 (cont)	
LM End	7.92	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.846029 °	38.846029 °	
				-121.631005 °	-121.631005 °	
DWR ID	22576					
Comment Code						
Inspector Comment						
DS_ID:22576 FS_ID:55175 EP_NO: 2931 Repair Type: Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Urgent due to an unauthorized cut on the WS. Unauthorized open cut visible on WS berm. CMP riser located on the LS toe has been replaced. Need to contact owner to determine if CVFPB has been contacted for the open cut and concrete work proposed on WS berm. DWR Levee Inspector, S. York, has been notified of the issue. (O. Magana - DWR UCIP)05/16/2013 - working during field survey- pipe expose on LS. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe through the levee, 4.9 feet below the crown. 18-inch, 50-horsepower slant pump mounted on a steel structure on the riverbank. Siphon breaker in a 6-inch steel riser on the landside (LS) shoulder. Pipe discharges into a 36-inch corrugated metal pipe (CMP) riser on the LS slope. (18-inch, 50-horsepower slant pump and irrigation discharge pipe authorized under Permit No. 2931, 1958 - Aileen Marty). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:08:00 PM						

Photo 3 of 3 : UCIP_FA_2019_55175_24031.jpg



LS- siphon breaker, exposed steel pipe, and CM standpipe on landside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

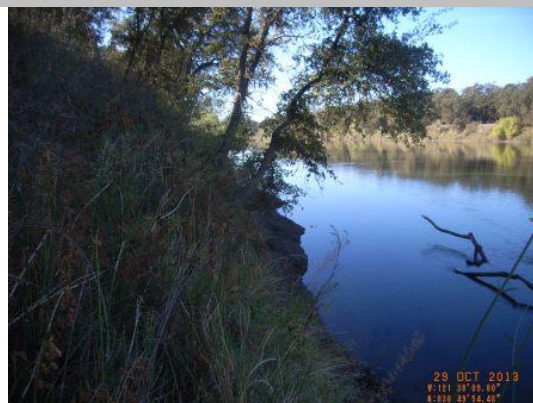
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	8.48	Rating **	A/W	Issue No.	38	
LM End		Issue Type +	Ob	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.838000 °		°
				-121.633051 °		°
DWR ID	LMA-20					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:140						
Site Designation:LMA-20						
Repair Type: Seepage						
Rating:Serious						
Field Date:8/31/2017						
Notes: Was recommended to receive additional rock during flood fight by Wilbur Huang but resources weren't available at the time. 4 seepage berms were installed during the storms, but more are needed between them						

No Photos

LM Start	8.57	Rating **	A/W	Issue No.	13
LM End	8.97	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.836966 °	38.831498 °
				-121.634128 °	-121.636371 °
DWR ID	DWR_RD1001_04_f_2018_13				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 3.8 L					
Status: Eroding					
2017 Field Notes: New erosion along lower slope					
Site History: 2006 - Sandy, silty bank with intermittent pockets of erosion. Rotational failure and tree pop outs are most of the problem. Some upper slope fluvial erosion. 2010 - Site extended upstream. The lower Feather may benefit from a regional repair. 2011 - Site combined with 3.6. Minimal new erosion. 2013 - New erosion observed at bank toe. Trees on site now have exposed roots.					

Photo 1 of 1 : FA_2019_RD1001_38_13_20190904_00003.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	8.65	Rating **	A/W	Issue No.	12
LM End	8.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.835766 °	38.834778 °
				-121.633966 °	-121.634316 °
DWR ID	DWR_RD1001_04_s_2012_12				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry bush has been trimmed for access and visibility.					

No Photos

LM Start	9.15	Rating **	M	Issue No.	95	
LM End	9.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.828893°	38.828893°	
				-121.637219°	-121.637219°	
DWR ID	22577					
Comment Code						
Inspector Comment						
DS_ID:22577						
FS_ID:55177						
EP_NO: 12828						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 08/21/2019 Record remains Non-Urgent, unable to complete a thorough inspection of this levee section. Dense vegetation at both the WS slope/berm and LS toe prevented a thorough inspection of this crossing. (O. Magana - DWR UCIP)05/16/2013 - needs detailed investigation for road surface cracks (P. Amatya - DWR UCIP)						
FIELD_STRUCT_DESC: 16-inch asphalt coated steel irrigation discharge pipe through the levee, 4.3 feet below the crown. 30-horsepower slant pump and platform on the riverbank. (16-inch irrigation discharge pipe and 30-horsepower slant pump authorized under Permit No. 12828, 1979. It is assumed that this 16-inch pipe replaces the abandoned 10-inch steel pipe referenced in the O&M Manual). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (RM 3.3), abandoned 10-inch steel pipe referenced].						
FS Date: 8/21/2019 1:08:00 PM						

Photo 1 of 3 : UCIP_FA_2019_55177_24002.jpg



WS- slanted pipe in steel structure on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

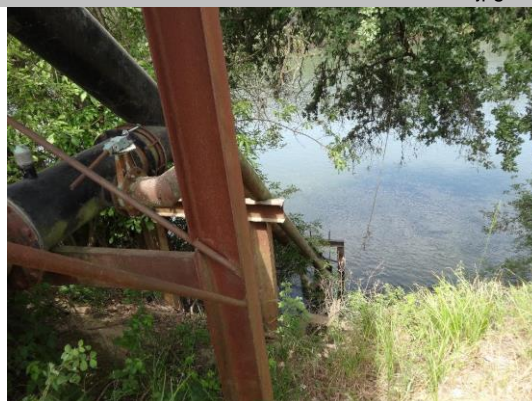
Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	9.15	Rating **	M	Issue No.	95 (cont)	
LM End	9.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.828893 °	38.828893 °	
				-121.637219 °	-121.637219 °	
DWR ID	22577					
Comment Code						
Inspector Comment						
DS_ID:22577						
FS_ID:55177						
EP_NO: 12828						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 08/21/2019 Record remains Non-Urgent, unable to complete a thorough inspection of this levee section. Dense vegetation at both the WS slope/berm and LS toe prevented a thorough inspection of this crossing. (O. Magana - DWR UCIP)05/16/2013 - needs detailed investigation for road surface cracks (P. Amatya - DWR UCIP)						
FIELD_STRUCT_DESC: 16-inch asphalt coated steel irrigation discharge pipe through the levee, 4.3 feet below the crown. 30-horsepower slant pump and platform on the riverbank. (16-inch irrigation discharge pipe and 30-horsepower slant pump authorized under Permit No. 12828, 1979. It is assumed that this 16-inch pipe replaces the abandoned 10-inch steel pipe referenced in the O&M Manual). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (RM 3.3), abandoned 10-inch steel pipe referenced].						
FS Date: 8/21/2019 1:08:00 PM						

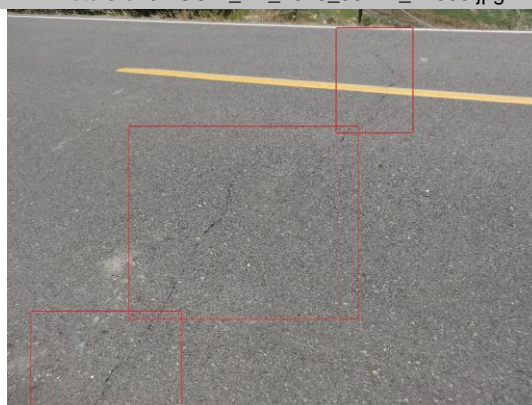
LM Start	9.15	Rating **	M	Issue No.	95 (cont)
LM End	9.15	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55177_24001.jpg



WS- inlet pipe and main pipe in pump station on river bank.

Photo 3 of 3 : UCIP_FA_2019_55177_24000.jpg



Levee Crown- road surface cracks along the pipe. Needs more investigation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	9.41	Rating **	A/W	Issue No.	43
LM End		Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.825391 °	°
				-121.639144 °	°
DWR ID	247-2				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:163					
Site Designation:247-2					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

No Photos

LM Start	9.44	Rating **	M	Issue No.	96
LM End	9.44	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.825107 °	38.825107 °
				-121.639369 °	-121.639369 °
DWR ID	22592				
Comment Code					
Inspector Comment					
DS_ID:22592					
FS_ID:55178					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 08/21/2019 Record remains Non-Urgent, pipe has been abandoned through the levee. Pipe was only visible on LS. No signs of pipe or appurtenances were visible from the river. Recommend geophysical study to determine if pipe is still present through the levee. Owner will need to coordinate with the CVFPB to remove or abandon pipe according to Title 23 requirements. (O. Magana - DWR UCIP)05/16/2013 - seems abandoned pipe crossing.- needs properly abandoned.- a 48" steel tank not found on landside. (P. Amatya - DWR UCIP)					
FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Pump on the riverbank. Pipe discharges into a 48-inch steel tank at the landside (LS) toe. (Johnston). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (RM 3.1)].					
FS Date: 8/21/2019 1:09:00 PM					

Photo 1 of 3 : UCIP_FA_2019_55178_23966.jpg



WS- damaged pipe with holes, cracks on levee slope. River bank is not visible due to dense vegetation (top)

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	9.44	Rating **	M	Issue No.	96 (cont)	
LM End	9.44	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.825107°	38.825107°	
				-121.639369°	-121.639369°	
DWR ID	22592					
Comment Code						
Inspector Comment						
DS_ID:22592 FS_ID:55178 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Non-Urgent, pipe has been abandoned through the levee. Pipe was only visible on LS. No signs of pipe or appurtenances were visible from the river. Recommend geophysical study to determine if pipe is still present through the levee. Owner will need to coordinate with the CVFPB to remove or abandon pipe according to Title 23 requirements. (O. Magana - DWR UCIP)05/16/2013 - seems abandoned pipe crossing.- needs properly abandoned.- a 48" steel tank not found on landside. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Pump on the riverbank. Pipe discharges into a 48-inch steel tank at the landside (LS) toe. (Johnston). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 141.1, August 1955, (RM 3.1)]. FS Date: 8/21/2019 1:09:00 PM						

LM Start	9.44	Rating **	M	Issue No.	96 (cont)
LM End	9.44	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55178_23965.jpg



WS- abandoned damaged pipe with holes, cracks on levee slope.

Photo 3 of 3 : UCIP_FA_2019_55178_23964.jpg



LS- overview of landside, steel pipe on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	9.52	Rating **	M	Issue No.	80
LM End	9.52	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.823911 °	38.823911 °
				-121.639869 °	-121.639869 °
DWR ID	DWR_RD1001_04_s_2016_80				
Comment Code					
PO : Pole					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1001_38_80_20190904_00039.jpg



View of pole on waterside crown.

LM Start	9.61	Rating **	M	Issue No.	37
LM End	9.61	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.822725 °	38.822725 °
				-121.640018 °	-121.640018 °
DWR ID	DWR_RD1001_04_f_2015_37				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping in front of a house on the waterside need to be removed, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_38_37_20190904_00021.jpg



View looking downstream waterside of landscaping vegetation encroaching onto the levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	9.92	Rating **	M	Issue No.	97
LM End	9.92	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.818341 °	38.818341 °
				-121.638890 °	-121.638890 °
DWR ID	22578				
Comment Code					
Inspector Comment					
DS_ID:22578 FS_ID:55179 EP_NO: 3297 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Non-Urgent, pipe appears abandoned. Siphon breaker has been damage without repair since 2013. If crossing is abandoned the owner will need to coordinate with the CVFPB to properly remove/abandon pipe per Title 23. (O. Magana - DWR UCIP)05/16/2013 - needs properly abandoned.- dismantled standpipe found on LS levee slope (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 3 feet below the crown. Slant pump mounted on a steel structure on the riverbank. Siphon breaker on the landside (LS) shoulder. Pipe discharges into a 24-inch concrete standpipe at the LS toe. (12-inch pipe and pump authorized under Permit No. 3297, 1960 - Albert Linggi). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:09:00 PM					

LM Start	9.92	Rating **	M	Issue No.	97 (cont)
LM End	9.92	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55179_24134.jpg



WS- exposed pipe on levee slope and pump station in river bank.

Photo 2 of 3 : UCIP_FA_2019_55179_24133.jpg



WS- exposed pipe on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	9.92	Rating **	M	Issue No.	97 (cont)	
LM End	9.92	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.818341 °	38.818341 °	
				-121.638890 °	-121.638890 °	
DWR ID	22578					
Comment Code						
Inspector Comment						
DS_ID:22578 FS_ID:55179 EP_NO: 3297 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Non-Urgent, pipe appears abandoned. Siphon breaker has been damage without repair since 2013. If crossing is abandoned the owner will need to coordinate with the CVFPB to properly remove/abandon pipe per Title 23. (O. Magana - DWR UCIP)05/16/2013 - needs properly abandoned.- dismantled standpipe found on LS levee slope (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 3 feet below the crown. Slant pump mounted on a steel structure on the riverbank. Siphon breaker on the landside (LS) shoulder. Pipe discharges into a 24-inch concrete standpipe at the LS toe. (12-inch pipe and pump authorized under Permit No. 3297, 1960 - Albert Linggi). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:09:00 PM						

Photo 3 of 3 : UCIP_FA_2019_55179_24132.jpg



WS- abandoned slanted pump station in steel pipe structure in river bank.

LM Start	9.97	Rating **	C	Issue No.	66
LM End	9.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.817659 °	38.817659 °
				-121.638404 °	-121.638404 °
DWR ID	DWR_RD1001_04_f_2016_66				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree pushed up to levee toe has been removed, Fall 2019.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	10.14	Rating **	M	Issue No.	98
LM End	10.14	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.815530 °	38.815530 °
				-121.636918 °	-121.636918 °
DWR ID	22572				
Comment Code					
Inspector Comment					
DS_ID:22572 FS_ID:55180 EP_NO: 1881 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Non-Urgent due to limited access to complete pipe inspection. Unable to complete inspection due to dense vegetation on the WS slope. Recommend auditing permit to determine if current owner is listed for Permit No. 1881. (O. Magana - DWR UCIP)05/16/2013 - buried slide gate found on WS slope.- concrete box at the landward toe not found. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Slant pump mounted on a pile structure on the riverbank. Gate valve on the waterside (WS) slope. Siphon breaker on the landside (LS) shoulder. Pipe discharges into a concrete box at the LS toe. (18-inch steel discharge pipe and slant pump authorized under Permit No. 1881, 1954 - L. G. Kipp and R. B. Reith). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:09:00 PM					

LM Start	10.14	Rating **	M	Issue No.	98 (cont)
LM End	10.14	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55180_23977.jpg



WS- slant pump on steel structure in river bank.

Photo 2 of 3 : UCIP_FA_2019_55180_23976.jpg



WS- main steel pipe on levee surface (without paint).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	10.14	Rating **	M	Issue No.	98 (cont)	
LM End	10.14	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.815530 °	38.815530 °	
				-121.636918 °	-121.636918 °	
DWR ID	22572					
Comment Code						
Inspector Comment						
DS_ID:22572 FS_ID:55180 EP_NO: 1881 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Non-Urgent due to limited access to complete pipe inspection. Unable to complete inspection due to dense vegetation on the WS slope. Recommend auditing permit to determine if current owner is listed for Permit No. 1881. (O. Magana - DWR UCIP)05/16/2013 - buried slide gate found on WS slope.- concrete box at the landward toe not found. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Slant pump mounted on a pile structure on the riverbank. Gate valve on the waterside (WS) slope. Siphon breaker on the landside (LS) shoulder. Pipe discharges into a concrete box at the LS toe. (18-inch steel discharge pipe and slant pump authorized under Permit No. 1881, 1954 - L. G. Kipp and R. B. Reith). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:09:00 PM						

Photo 3 of 3 : UCIP_FA_2019_55180_81186.jpg



WS view: limited visibility to evaluate pipe crossing through levee section.

LM Start	10.60	Rating **	M	Issue No.	30
LM End	10.60	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.809257 °	38.809257 °
				-121.633909 °	-121.633909 °
DWR ID	DWR_RD1001_04_s_2013_30				
Comment Code					
RW : Retaining Wall					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1001_38_30_20190904_00014.jpg



A retaining wall is within the profile of the slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	10.60	Rating **	M	Issue No.	29							
LM End	10.60	Issue Type +	En	Location *	LS							
Category	Earthen Levee		GPS Latitude/Longitude									
			Start	End								
Item	Encroachments		38.809256 °	38.809256 °								
			-121.633908 °	-121.633908 °								
DWR ID	DWR_RD1001_04_s_2013_29											
Comment Code												
BU : Building												
Inspector Comment												

Photo 1 of 1 : FA_2019_RD1001_38_29_20190904_00013.jpg



The building is within the easement of the levee.

LM Start	10.81	Rating **	M	Issue No.	99							
LM End	10.81	Issue Type +	En	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DRAFT DWR UCIP Field Study		38.806363 °	38.806363 °								
			-121.633430 °	-121.633430 °								
DWR ID	22579											
Comment Code												
Inspector Comment												
DS_ID:22579 FS_ID:55181 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been abandoned through the levee. Pipe is abandoned with only pipe section found on LS. No signs of pipe were visible from the river. (O. Magana - DWR UCIP)05/16/2013 - Only a portion of the pipe found on landside. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 8-inch pipe of an unknown material or purpose through the levee, 7.7 feet below the crown. Capped on the waterside (WS) end in 1955. (Rutz). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:10:00 PM												

Photo 1 of 3 : UCIP_FA_2019_55181_23974.jpg



WS- no pipe or structure found.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	10.81	Rating **	M	Issue No.	99 (cont)	
LM End	10.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.806363 °	38.806363 °	
				-121.633430 °	-121.633430 °	
DWR ID	22579					
Comment Code						
Inspector Comment						
DS_ID:22579 FS_ID:55181 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Non-Urgent, pipe has been abandoned through the levee. Pipe is abandoned with only pipe section found on LS. No signs of pipe were visible from the river. (O. Magana - DWR UCIP)05/16/2013 - Only a portion of the pipe found on landside. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 8-inch pipe of an unknown material or purpose through the levee, 7.7 feet below the crown. Capped on the waterside (WS) end in 1955. (Rutz). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:10:00 PM						

LM Start	10.81	Rating **	M	Issue No.	99 (cont)
LM End	10.81	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55181_23973.jpg



LS- overview of landside of the levee.

Photo 3 of 3 : UCIP_FA_2019_55181_23975.jpg



LS- portion of steel pipe exposed in levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	11.05	Rating **	A/W	Issue No.	22
LM End	11.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.802875 °	38.802000 °
				-121.632862 °	-121.632763 °
DWR ID	DWR_RD1001_04_s _ 2012_22				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry bush has been trimmed for access and visibility.					

No Photos

LM Start	11.12	Rating **	A/W	Issue No.	49
LM End	13.19	Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.801862 °	38.781706 °
				-121.632702 °	-121.606869 °
DWR ID	LMA-329				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:Portions were temporarily repaired by DWR during 2017					
flood fight. Permanent repairs are required through entire reach.					
Estimated cost \$14.6 million					
Site ID No:491					
Site Designation:LMA-329					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes:					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	11.16	Rating **	M	Issue No.	100	
LM End	11.16	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			38.801288 °		38.801288 °
				-121.632565 °		-121.632565 °
DWR ID	22590					
Comment Code						
Inspector Comment						
DS_ID:22590 FS_ID:54620 EP_NO: 17819 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/21/2019 Record has been updated to Non-Urgent, no maintenance records were made available to determine whether pipe is active or inactive. Unable to find markers indicating location of line. Need to contact owner to determine status of crossing. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 4-inch steel natural gas pipeline bored under the Feather River and its levees, at an unknown depth. (4-inch steel natural gas pipeline authorized under Permit No. 17819, 2004 - Towne Exploration Company). FS Date: 8/21/2019 1:10:00 PM						

No Photos

LM Start	11.18	Rating **	A/W	Issue No.	10
LM End	11.37	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.800920 °	38.798165 °
				-121.633050 °	-121.631939 °
DWR ID	DWR_RD1001_04_f _ 2018_10				
Comment Code					
Inspector Comment					
2017 Site ID: FHR 1.0 L					
Status: Eroding					
2017 Field Notes: Significant new erosion along lower bank.					
Site History: 2000 - Site is relatively stable except for some toe erosion at the upstream end, recommend monitoring the upstream end. 2004 - Some new block failures (10ft deep) at the toe of the upstream end.					
2007 - Some minor new slumping at the waterline. 2013 - Minor new erosion along the bank toe.					

Photo 1 of 1 : FA_2019_RD1001_38_10_20190904_00002.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	11.24	Rating **	A/W	Issue No.	23
LM End	11.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.800174 °	38.800174 °
				-121.632227 °	-121.632227 °
DWR ID	DWR_RD1001_04_s_2012_23				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry bush has been trimmed for access and visibility.					

No Photos

LM Start	11.28	Rating **	M	Issue No.	101
LM End	11.28	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.799561 °	38.799561 °
				-121.631964 °	-121.631964 °
DWR ID	22580				
Comment Code					
Inspector Comment					
DS_ID:22580 FS_ID:55966 EP_NO: 3489-1 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Non-Urgent, maintenance work for this crossing is still pending. New pipe section was added to WS from intake to where pipe daylights. Work is almost complete. Updated photos of the construction work have been forwarded to DWR Levee Inspector for Permit records. (O. Magana - DWR UCIP)05/16/2013 - siphon breaker on the landward shoulder not found.- cracked road surface along the pipe alignment. Needs more investigations. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 16-inch irrigation discharge pipe of an unknown material through the levee, 3 feet below the crown. 40-horsepower slant pump mounted on a steel structure on the riverbank. Pipe discharges into a 36-inch concrete standpipe at the landside (LS) toe. (16-inch pipe and 40-horsepower pump authorized under Permit No. 3489, 1960 - Kirtland Brothers; name change authorized under Permit No. 3489-1, 2018 - Global AG Properties USA LLC c/o WGIM, Inc.) [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:10:00 PM					

Photo 1 of 3 : UCIP_FA_2019_55966_23970.jpg



WS- slant pump on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	11.28	Rating **	M	Issue No.	101 (cont)	
LM End	11.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.799561 °	38.799561 °	
				-121.631964 °	-121.631964 °	
DWR ID	22580					
Comment Code						
Inspector Comment						
DS_ID:22580 FS_ID:55966 EP_NO: 3489-1 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Non-Urgent, maintenance work for this crossing is still pending. New pipe section was added to WS from intake to where pipe daylight. Work is almost complete. Updated photos of the construction work have been forwarded to DWR Levee Inspector for Permit records. (O. Magana - DWR UCIP)05/16/2013 - siphon breaker on the landward shoulder not found.- cracked road surface along the pipe alignment. Needs more investigations. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 16-inch irrigation discharge pipe of an unknown material through the levee, 3 feet below the crown. 40-horsepower slant pump mounted on a steel structure on the riverbank. Pipe discharges into a 36-inch concrete standpipe at the landside (LS) toe. (16-inch pipe and 40-horsepower pump authorized under Permit No. 3489, 1960 - Kirtland Brothers; name change authorized under Permit No. 3489-1, 2018 - Global AG Properties USA LLC c/o WGIM, Inc.) [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:10:00 PM						

LM Start	11.28	Rating **	M	Issue No.	101 (cont)
LM End	11.28	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55966_23969.jpg



Levee Crown- surface crack along pipe crossing. Needs more investigation.

Photo 3 of 3 : UCIP_FA_2019_55966_23968.jpg



WS- slant pump, pipe on steel piles.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1001 Nicolaus

USACE 2013 Photo #1

No Photos

Page 50 of 54

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	12.32	Rating **	A/W	Issue No.	24
LM End	12.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.787355 °	38.786507 °
				-121.621165 °	-121.619837 °
DWR ID	DWR_RD1001_04_s_2012_24				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry bush has been trimmed for access and visibility.					

No Photos

LM Start	12.44	Rating **	M	Issue No.	53
LM End	12.44	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.786444 °	38.786444 °
				-121.619165 °	-121.619165 °
DWR ID	DWR_RD1001_04_s_2018_53				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings from levee toe, Spring 2019.					

Photo 1 of 1 : FA_2019_RD1001_38_53_20190904_00026.jpg



View looking at landside toe of prunings on levee toe, Fall 2018.

LM Start	12.48	Rating **	U	Issue No.	25
LM End	12.48	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.786073 °	38.786073 °
				-121.618522 °	-121.618522 °
DWR ID	DWR_RD1001_04_s_2012_25				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1001_38_25_20190904_00010.jpg



An unpermitted building is at the toe of the levee.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	12.54	Rating **	M	Issue No.	102	
LM End	12.54	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.785372 °	38.785372 °	
				-121.617772 °	-121.617772 °	
DWR ID	22639					
Comment Code						
Inspector Comment						
DS_ID:22639 FS_ID:55185 EP_NO: 13081 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/21/2019 Record has been updated to Non-Urgent, unable to confirm any signs of conduit or water line. Recommend contacting owner to determine status of lines through this section of the levee. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: Electrical conduit and water line of an unknown size or material through the levee, at an unknown depth. Ramps paved with concrete on both slopes. Recreational vehicle park on the bank. (Recreational vehicle park authorized under Permit No. 13081, 1981 - Ed Loftis). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:10:00 PM						

No Photos

LM Start	12.65	Rating **	A/W	Issue No.	26
LM End	13.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.784513 °	38.781862 °
				-121.616045 °	-121.607855 °
DWR ID	DWR_RD1001_04_s_2012_26				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry bush has been trimmed for access and visibility.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	12.67	Rating **	A/W	Issue No.	11
LM End	13.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.784579 °	38.782150 °
				-121.615689 °	-121.607918 °
DWR ID	DWR_RD1001_04_f_2013_11				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry bush has been trimmed for access and visibility.					

No Photos

LM Start	13.22	Rating **	M	Issue No.	103	
LM End	13.22	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.781438 °	38.781438 °	
				-121.606338 °	-121.606338 °	
DWR ID	22585					
Comment Code						
Inspector Comment						
DS_ID:22585 FS_ID:54623 EP_NO: 2388 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/21/2019 Record has been updated to Non-Urgent, unable to determine the status of the pipe through the levee. Unable to find any appurtenances associated with this pipe only found indicators on paved road where previous cut was made. No signs of pipe were found from river survey. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, at an unknown depth. Pump on the riverbank. Shutoff valve and siphon breaker on the waterside (WS). (10-inch steel irrigation discharge pipe and pump authorized under Permit No. 2388, 1956 - Perry H. Stinnett). FS Date: 8/21/2019 1:10:00 PM						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	11/14/2019 11/14/2019	Sterling York

LM Start	13.27	Rating **	M	Issue No.	104
LM End	13.27	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		38.781179°	38.781179°	
			-121.605479°	-121.605479°	
DWR ID	22638				
Comment Code					
Inspector Comment					
DS_ID:22638 FS_ID:54624 EP_NO: 5692 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 08/21/2019 Record has been updated to Non-Urgent, unable to determine the status of the telephone conduit through the levee. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: Telephone conduit of an unknown size or material through the levee, 3 feet below the crown. The buried conduit also runs along the landside (LS) toe for an unspecified distance. (Telephone conduit authorized under Permit No. 5692, 1967 - Pacific Telephone and Telegraph Company [PT&T]). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 1:11:00 PM					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 05 Natomas Cross Canal			Right	5.39
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	3/5/2019 - 3/5/2019		10/2/2019 - 10/2/2019	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/02/2019 10/02/2019	Sterling York

LM Start	0.00	Rating **	A	Issue No.	12
LM End	5.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.781206 °	38.831070 °
				-121.605445 °	-121.529769 °
DWR ID	DWR_RD1001_05_f_2019_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_39_12_20191029_00022.jpg



View looking downstream landside at the well maintained vegetation, Fall 2019.

LM Start	0.00	Rating **	A	Issue No.	14
LM End	5.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.781206 °	38.831070 °
				-121.605445 °	-121.529769 °
DWR ID	DWR_RD1001_05_f_2019_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_39_14_20191029_00023.jpg



View looking downstream waterside at the well maintained vegetation, Fall 2019.

LM Start	0.05	Rating **	M	Issue No.	13
LM End	0.05	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.781881 °	38.781881 °
				-121.605215 °	-121.605215 °
DWR ID	DWR_RD1001_05_f_2016_13				
Comment Code					
BU : Building					
Inspector Comment					
House and carport are at landside levee toe.					

Photo 1 of 1 : FA_2019_RD1001_39_13_20190904_00006.jpg



View of a house and carport that are at the levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/02/2019 10/02/2019	Sterling York

LM Start	0.06	Rating **	M	Issue No.	16
LM End	0.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.781999°	38.781999°
				-121.605182°	-121.605182°
DWR ID	DWR_RD1001_05_f_2015_16				
Comment Code					
RW : Retaining Wall					
Inspector Comment					
Retaining wall is into the landside levee toe, it is part of the carport.					

No Photos

LM Start	0.09	Rating **	M	Issue No.	15
LM End	0.11	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.782447°	38.782717°
				-121.605008°	-121.604870°
DWR ID	DWR_RD1001_05_s_2019_15				
Comment Code					
FE : Fence					
Inspector Comment					
Temporary fence needs to be removed, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_39_15_20190904_00007.jpg



View looking upstream landside at a temporary goat fence, Spring 2019.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/02/2019 10/02/2019	Sterling York

LM Start	0.79	Rating **	M	Issue No.	17	
LM End	0.79	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.790556 °	38.790556 °	
				-121.597477 °	-121.597477 °	
DWR ID	22610					
Comment Code						
Inspector Comment						
DS_ID:22610						
FS_ID:14393						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 08/22/2019 Record has been updated with USACE O&M reference. (O. Magana - DWR UCIP)						
05/15/2013 - needs repair of concrete piers on waterside. Rebar exposed from the pier. Even though this pier is functionally not linked to the pipe, it needs repair. (P. Amatya - DWR UCIP)						
FIELD_STRUCT_DESC: [RD 1001 Drainage Pumping Plant] 5 of 8: 24-inch reinforced concrete drainage discharge pipe through the levee, 25 feet below the crown. Five 60-inch by 84-inch reinforced concrete drainage tunnels through the levee, 25 feet below the crown. One tunnel has a 60-inch pump installed inside and is gated on the waterside (WS) end. Two 50-inch steel drainage discharge pipes through the levee, 25 feet below the crown. All tunnels and pipes are gated. Concrete headwall and railing along the landside (LS). (Reclamation District No. 1001). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, five 4-foot by 5-foot culverts, two 50-inch pipe, and one 20-inch pipe (HLM 0.80)].						
FS Date: 5/15/2013						

LM Start	0.79	Rating **	M	Issue No.	17 (cont)
LM End	0.79	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_14393_23697.jpg



Location of pipes and tunnels. 24-inch steel pipe located at 5th from the left.

Photo 2 of 3 : UCIP_FA_2019_14393_23696.jpg



LS- Drainage structure with tunnels, pipes and pump house. Tunnel 1 at far right and tunnel 5 at far left. The pipe is located inside tunnel 3.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/02/2019 10/02/2019	Sterling York

LM Start	0.79	Rating **	M	Issue No.	17 (cont)	
LM End	0.79	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.790556 °	38.790556 °	
				-121.597477 °	-121.597477 °	
DWR ID	22610					
Comment Code						
Inspector Comment						
DS_ID:22610 FS_ID:14393 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/22/2019 Record has been updated with USACE O&M reference. (O. Magana - DWR UCIP) 05/15/2013 - needs repair of concrete piers on waterside. Rebar exposed from the pier. Even though this pier is functionally not linked to the pipe, it needs repair. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: [RD 1001 Drainage Pumping Plant] 5 of 8: 24-inch reinforced concrete drainage discharge pipe through the levee, 25 feet below the crown. Five 60-inch by 84-inch reinforced concrete drainage tunnels through the levee, 25 feet below the crown. One tunnel has a 60-inch pump installed inside and is gated on the waterside (WS) end. Two 50-inch steel drainage discharge pipes through the levee, 25 feet below the crown. All tunnels and pipes are gated. Concrete headwall and railing along the landside (LS). (Reclamation District No. 1001). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, five 4-foot by 5-foot culverts, two 50-inch pipe, and one 20-inch pipe (HLM 0.80)]. FS Date: 5/15/2013						

Photo 3 of 3 : UCIP_FA_2019_14393_23799.jpg



WS- three steel pipes inside tunnel. Fifty inch pipes on left and right. Twenty four inch pipe in middle of the structure as shown.

LM Start	1.78	Rating **	M	Issue No.	5
LM End	1.85	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.799037 °	38.799733 °
				-121.582706 °	-121.581585 °
DWR ID	DWR_RD1001_05_f_2018_5				
Comment Code					
Inspector Comment					
2017 Site ID: NCC 1.9 L					
Status: Eroding New					
2017 Field Notes: Erosion along mid bank and sections of slumped bank.					
Site History:					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/02/2019 10/02/2019	Sterling York

LM Start	2.24	Rating **	M	Issue No.	6
LM End	2.34	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.803327 °	38.804206 °
				-121.575993 °	-121.574529 °
DWR ID	DWR_RD1001_05_f_2018_6				
Comment Code					
Inspector Comment					
2017 Site ID: NCC 2.4 R Status: Eroding 2017 Field Notes: Site renamed, previously mislabeled as NCC 3.0. Erosion along mid bank slope. Site History: 2006 - Noted old saturation slumping of upper levee slope that is into the levee core (near high water line). 2011 - Erosion is into the top of the levee. This site is actually located at LM 2.4. 2016 - Site extended downstream. Slumping of entire meiddle levee section.					

No Photos

LM Start	2.68	Rating **	M	Issue No.	9
LM End	3.13	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.807180°	38.811122°
				-121.569523°	-121.562873°
DWR ID	DWR_RD1001_05_f_2018_9				
Comment Code					
Inspector Comment					
2017 Site ID: NCC 2.9 R					
Status: Eroding New					
2017 Field Notes: Hummocky levee face, slumping upper bank.					
Site History: 2016 - Slumping of upper bank slope.					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable
 M : Minimally Acceptable
 U : Unacceptable
 N : Not Inspected/Rated
 C : Corrected
 A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/02/2019 10/02/2019	Sterling York

LM Start	3.56	Rating **	M	Issue No.	7
LM End	3.81	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.814919 °	38.817178 °
				-121.556712 °	-121.552965 °
DWR ID	DWR_RD1001_05_s_2012_7				
Comment Code					
PO : Pole					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1001_39_7_20190904_00001.jpg



View of poles on the landside shoulder looking downstream.

LM Start	3.81	Rating **	M	Issue No.	10
LM End	3.81	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.817178 °	38.817178 °
				-121.552965 °	-121.552965 °
DWR ID	DWR_RD1001_05_s_2012_10				
Comment Code					
TA : Tank					
Inspector Comment					
Fuel tank at landside levee toe.					

Photo 1 of 1 : FA_2019_RD1001_39_10_20190904_00005.jpg



View of tank on the landside shoulder looking downstream.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/02/2019 10/02/2019	Sterling York

LM Start	3.81	Rating **	M	Issue No.	18	
LM End	3.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.817175 °	38.817175 °	
				-121.552946 °	-121.552946 °	
DWR ID	22604					
Comment Code						
Inspector Comment						
DS_ID:22604 FS_ID:14486 EP_NO: 1896 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey- abandoned steel pipe, may need to remove it or properly abandoned. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 1 of 3: 20-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013						

LM Start	3.81	Rating **	M	Issue No.	18 (cont)
LM End	3.81	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_14486_23913.jpg



WS- pump station, walkway, and slide gate in concrete box.

Photo 2 of 3 : UCIP_FA_2019_14486_23912.jpg



WS- abandoned pipe adjacent to pump station on stream bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/02/2019 10/02/2019	Sterling York

LM Start	3.81	Rating **	M	Issue No.	18 (cont)	
LM End	3.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.817175 °	38.817175 °	
				-121.552946 °	-121.552946 °	
DWR ID	22604					
Comment Code						
Inspector Comment						
DS_ID:22604 FS_ID:14486 EP_NO: 1896 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey- abandoned steel pipe, may need to remove it or properly abandoned. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 1 of 3: 20-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013						

Photo 3 of 3 : UCIP_FA_2019_14486_23911.jpg



WS- slide gate in concrete box on levee toe.

LM Start	3.81	Rating **	M	Issue No.	19	
LM End	3.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			38.817175 °		38.817175 °
				-121.552946 °		-121.552946 °
DWR ID	22595					
Comment Code						
Inspector Comment						
DS_ID:22595 FS_ID:14484 EP_NO: 1896 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 2 of 3: 20-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013						

Photo 1 of 3 : UCIP_FA_2019_14484_23894.jpg



WS- overview of pump station, walkway, and slide gate in concrete box.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/02/2019 10/02/2019	Sterling York

LM Start	3.81	Rating **	M	Issue No.	19 (cont)	
LM End	3.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.817175 °	38.817175 °	
				-121.552946 °	-121.552946 °	
DWR ID	22595					
Comment Code						
Inspector Comment						
DS_ID:22595 FS_ID:14484 EP_NO: 1896 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 2 of 3: 20-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013						

LM Start	3.81	Rating **	M	Issue No.	19 (cont)
LM End	3.81	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_14484_23898.jpg



WS- slide gate in concrete box on levee toe.

Photo 3 of 3 : UCIP_FA_2019_14484_23897.jpg



LS- overview of irrigation ditch on levee toe (top)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/02/2019 10/02/2019	Sterling York

LM Start	3.81	Rating **	M	Issue No.	20	
LM End	3.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			38.817175 °	38.817175 °	
				-121.552946 °	-121.552946 °	
DWR ID	22613					
Comment Code						
Inspector Comment						
DS_ID:22613 FS_ID:14472 EP_NO: 1896 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 3 of 3: 30-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013						

LM Start	3.81	Rating **	M	Issue No.	20 (cont)
LM End	3.81	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_14472_23891.jpg



WS- pump station, walkway, and slide gate in concrete box on levee toe

Photo 2 of 3 : UCIP_FA_2019_14472_23890.jpg



WS- slide gate in concrete box on levee toe

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/02/2019 10/02/2019	Sterling York

LM Start	3.81	Rating **	M	Issue No.	20 (cont)	
LM End	3.81	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.817175 °	38.817175 °	
				-121.552946 °	-121.552946 °	
DWR ID	22613					
Comment Code						
Inspector Comment						
DS_ID:22613 FS_ID:14472 EP_NO: 1896 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/15/2013 - slide gate in concrete box on waterside levee toe.- cracked headwall on landside- working during field survey (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 3 of 3: 30-inch asbestos bonded corrugated metal irrigation discharge pipe through the levee, 2.13 feet below the crown. Three vertical pumps on a wooden piling structure in the stream. Walkway to the pumps. Slide gate in a concrete box on the waterside (WS). (Permit No. 1896, [permit missing]). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 5/15/2013						

Photo 3 of 3 : UCIP_FA_2019_14472_23889.jpg



LS- pipes discharge water in irrigation ditch on landside (top)

LM Start	5.05	Rating **	A/W	Issue No.	8
LM End	5.06	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.828100 °	38.828188 °
				-121.534740 °	-121.534625 °
DWR ID	RD 1001-03				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:493					
Site Designation:RD 1001-03					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/17/2017					
Notes: Serious per senior review					

Photo 1 of 3 : LEVAL_FA_2019_493_1759.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	10/02/2019 10/02/2019	Sterling York

LM Start	5.05	Rating **	A/W	Issue No.	8 (cont)	
LM End	5.06	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.828100 °		38.828188 °
				-121.534740 °		-121.534625 °
DWR ID	RD 1001-03					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:493						
Site Designation:RD 1001-03						
Repair Type: Erosion						
Rating:Serious						
Field Date:7/17/2017						
Notes: Serious per senior review						

LM Start	5.05	Rating **	A/W	Issue No.	8 (cont)
LM End	5.06	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : LEVAL_FA_2019_493_1762.jpg



Photo 3 of 3 : LEVAL_FA_2019_493_1763.jpg



*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Reclamation District No. 1001 Nicolaus

Waterway			Bank	Unit Miles
Unit No. 06 East Side Canal			Right	4.74
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/5/2019 - 3/5/2019		10/2/2019 - 10/2/2019	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Joe Henderson RD1001		Joe Henderson RD1001	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	0.01	Rating **	M	Issue No.	20
LM End	0.47	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.831276 °	38.837276 °
				-121.529645 °	-121.526592 °
DWR ID	DWR_RD1001_06_f_2016_20				
Comment Code					
FE : Fence					
Inspector Comment					
There is a fence along the landside levee toe.					

Photo 1 of 1 : FA_2019_RD1001_40_20_20190904_00006.jpg



View of fence along the landside levee toe looking upstream.

LM Start	0.02	Rating **	A	Issue No.	25
LM End	4.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.831229 °	38.896324 °
				-121.529506 °	-121.520546 °
DWR ID	DWR_RD1001_06_f_2019_25				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_40_25_20191029_00055.jpg



View looking downstream landside at the well maintained vegetation, Fall 2019.

LM Start	0.02	Rating **	A	Issue No.	26
LM End	4.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.831229°	38.896323°
				-121.529506°	-121.520545°
DWR ID	DWR_RD1001_06_f_2019_26				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The annual vegetation is well maintained, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_40_26_20191029_00056.jpg



View looking downstream waterside at the well maintained vegetation, Fall 2019.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	0.04	Rating **	M	Issue No.	47
LM End	0.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.831461 °	38.831461 °
				-121.529260 °	-121.529260 °
DWR ID	22636				
Comment Code					
Inspector Comment					
DS_ID:22636 FS_ID:55186 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Non-Urgent due to limited inspection on the LS and missing permit authorizing crossing. Record updated with USACE O&M reference. Dense vegetation prevented a thorough inspection of the levee slopes. Pipe is selected for DMP internal video inspection. A good evaluation of pipe condition will be available once the DMP internal video inspection is completed. (O. Magana - DWR UCIP)05/15/2013 - steep levee slope- dense vegetation (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 17.6 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 36-inch pipe (HLM 0.03)]. FS Date: 8/21/2019 12:52:00 PM					

LM Start	0.04	Rating **	M	Issue No.	47 (cont)
LM End	0.04	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55186_23508.jpg



WS- slide gate, air vent in CMP riser.

Photo 2 of 3 : UCIP_FA_2019_55186_23507.jpg



LS- pipe discharges into irrigation ditch

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	0.04	Rating **	M	Issue No.	47 (cont)	
LM End	0.04	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.831461 °	38.831461 °	
				-121.529260 °	-121.529260 °	
DWR ID	22636					
Comment Code						
Inspector Comment						
DS_ID:22636 FS_ID:55186 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Non-Urgent due to limited inspection on the LS and missing permit authorizing crossing. Record updated with USACE O&M reference. Dense vegetation prevented a thorough inspection of the levee slopes. Pipe is selected for DMP internal video inspection. A good evaluation of pipe condition will be available once the DMP internal video inspection is completed. (O. Magana - DWR UCIP)05/15/2013 - steep levee slope- dense vegetation (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 17.6 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete U-shaped headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 36-inch pipe (HLM 0.03)]. FS Date: 8/21/2019 12:52:00 PM						

Photo 3 of 3 : UCIP_FA_2019_55186_23506.jpg



LS-concrete wing/head wall on levee toe.

LM Start	0.47	Rating **	U	Issue No.	16
LM End	0.47	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.837366 °	38.837366 °
				-121.526579 °	-121.526579 °
DWR ID	DWR_RD1001_06_f_2018_16				
Comment Code					
FE : Fence					
Inspector Comment					
The solid fence needs to be removed from the crown, Fall 2019.					

Photo 1 of 2 : FA_2019_RD1001_40_16_20191029_00058.jpg



View looking downstream waterside crown at an unpermitted solid fence, Fall 2019.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	0.47	Rating **	U	Issue No.	16 (cont)	
LM End	0.47	Issue Type +	En	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			38.837366 °	38.837366 °	
				-121.526579 °	-121.526579 °	
DWR ID	DWR_RD1001_06_f_2018_16					
Comment Code						
FE : Fence						
Inspector Comment						
The solid fence needs to be removed from the crown, Fall 2019.						

Photo 2 of 2 : FA_2019_RD1001_40_16_20190904_00004.jpg



View looking upstream waterside crown at an unpermitted solid fence, Fall 2018.

LM Start	0.56	Rating **	M	Issue No.	48	
LM End	0.56	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.838614 °	38.838614 °	
				-121.526039 °	-121.526039 °	
DWR ID	22635					
Comment Code						
Inspector Comment						
DS_ID:22635 FS_ID:55187 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been issued authorizing crossing. Record updated with USACE O&M reference. A good evaluation of pipe condition will be available once the DMP internal video inspection is completed. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 14.3 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 36-inch pipe (HLM 0.56)]. FS Date: 8/21/2019 12:52:00 PM						

Photo 1 of 3 : UCIP_FA_2019_55187_23510.jpg



WS- slide gate in CMP riser on levee slope

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	0.56	Rating **	M	Issue No.	48 (cont)	
LM End	0.56	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.838614 °	38.838614 °	
				-121.526039 °	-121.526039 °	
DWR ID	22635					
Comment Code						
Inspector Comment						
DS_ID:22635 FS_ID:55187 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been issued authorizing crossing. Record updated with USACE O&M reference. A good evaluation of pipe condition will be available once the DMP internal video inspection is completed. (O. Magana - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 14.3 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 36-inch pipe (HLM 0.56)]. FS Date: 8/21/2019 12:52:00 PM						

Photo 2 of 3 : UCIP_FA_2019_55187_23509.jpg



LS- concrete distribution box with headwall on levee toe.

LM Start	0.56	Rating **	M	Issue No.	48 (cont)
LM End	0.56	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2019_55187_23511.jpg



LS- inside view of CMP. Thin layer of soil deposited in the pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	0.77	Rating **	U	Issue No.	21
LM End	0.85	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.841522 °	38.842611 °
				-121.524833 °	-121.524533 °
DWR ID	DWR_RD1001_06_f_2018_21				
Comment Code					
MA : Material					
Inspector Comment					
Soil material piled on the levee toe needs to be removed, Fall 2019.					

Photo 1 of 1 : FA_2019_RD1001_40_21_20190904_00007.jpg



View looking upstream landside where soil has been dumped on the levee toe, Fall 2018.

LM Start	0.95	Rating **	M	Issue No.	46
LM End	0.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.844109 °	38.844109 °
				-121.524375 °	-121.524375 °
DWR ID	DWR_RD1001_06_s_2012_46				
Comment Code					
TA : Tank					
Inspector Comment					
Propane tank is within the landside easement of the levee.					

Photo 1 of 1 : FA_2019_RD1001_40_46_20190904_00010.jpg



View of a propane tank that is within the landside easement of the levee.

LM Start	1.45	Rating **	M	Issue No.	3
LM End	1.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.851234 °	38.852445 °
				-121.524421 °	-121.524809 °
DWR ID	DWR_RD1001_06_s_2012_3				
Comment Code					
EQ : Equipment					
Inspector Comment					
Remove equipment from levee toe.					

Photo 1 of 1 : FA_2019_RD1001_40_3_20191029_00057.jpg



View looking downstream of the equipment at the landside levee toe, Fall 2019.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	1.72	Rating **	U	Issue No.	49
LM End	1.72	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.855186 °	38.855186 °
				-121.524895 °	-121.524895 °
DWR ID	22617				

Comment Code

Inspector Comment

DS_ID:22617
FS_ID:55199
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/21/2019 Pipe has been upgraded to Urgent: Pipe Integrity due to deteriorated pipe section at inlet. DMP internal video inspection still hasn't been completed to determine extent of damage through levee. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 - visible damage to pipe on opening at inlet due to high corrosion.- video inspection recommended. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 30-inch pipe (HLM 1.72)].
FS Date: 8/21/2019 12:53:00 PM

LM Start	1.72	Rating **	U	Issue No.	49 (cont)
LM End	1.72	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55199_23467.jpg



WS- slide gate in CMP riser on levee slope.

Photo 2 of 3 : UCIP_FA_2019_55199_23466.jpg



WS- slide gate, air vent pipe in CMP riser on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	1.72	Rating **	U	Issue No.	49 (cont)
LM End	1.72	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.855186°	38.855186°
				-121.524895°	-121.524895°
DWR ID	22617				
Comment Code					
Inspector Comment					
DS_ID:22617 FS_ID:55199 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Pipe has been upgraded to Urgent: Pipe Integrity due to deteriorated pipe section at inlet. DMP internal video inspection still hasn't been completed to determine extent of damage through levee. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 - visible damage to pipe on opening at inlet due to high corrosion.- video inspection recommended. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 12.5 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 30-inch pipe (HLM 1.72)]. FS Date: 8/21/2019 12:53:00 PM					

Photo 3 of 3 : UCIP_FA_2019_55199_23465.jpg



WS- pipe opening visible inside CMP riser.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	2.03	Rating **	M	Issue No.	50	
LM End	2.03	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.859601 °	38.859601 °	
				-121.524885 °	-121.524885 °	
DWR ID	22616					
Comment Code						
Inspector Comment						
DS_ID:22616 FS_ID:55196 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Non-Urgent due to missing permit authorizing crossing and limited inspection on the LS. Dense vegetation prevented a thorough inspection of levee section at pipe location. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 - pipe buried/submerged on LS-needs cleaning of LS pipe end opening. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 15.5 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 24-inch pipe (HLM 2.03)]. FS Date: 8/21/2019 12:54:00 PM						

LM Start	2.03	Rating **	M	Issue No.	50 (cont)
LM End	2.03	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55196_23445.jpg



WS- slide gate in CMP riser on levee slope.

Photo 2 of 3 : UCIP_FA_2019_55196_23444.jpg



LS- concrete wing wall on levee toe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	2.03	Rating **	M	Issue No.	50 (cont)	
LM End	2.03	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.859601 °	38.859601 °	
				-121.524885 °	-121.524885 °	
DWR ID	22616					
Comment Code						
Inspector Comment						
DS_ID:22616 FS_ID:55196 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Non-Urgent due to missing permit authorizing crossing and limited inspection on the LS. Dense vegetation prevented a thorough inspection of levee section at pipe location. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 - pipe buried/submerged on LS-needs cleaning of LS pipe end opening. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 15.5 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 24-inch pipe (HLM 2.03)]. FS Date: 8/21/2019 12:54:00 PM						

Photo 3 of 3 : UCIP_FA_2019_55196_23443.jpg



LS- pipe submerged/buried in concrete wing wall on levee toe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	2.04	Rating **	M	Issue No.	51
LM End	2.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.859791 °	38.859791 °
				-121.524877 °	-121.524877 °
DWR ID	22615				

Comment Code

Inspector Comment

DS_ID:22615
FS_ID:55197
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Non-Urgent, dense vegetation along the LS slope prevented a thorough inspection. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 - a concrete vault found off the pipe alignment on LS.- a CMP found across the road on LS.- a slide gate in CMP riser on levee slope on WS. (P. Amatya - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 15.5 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 24-inch pipe (HLM 2.05)].
FS Date: 8/21/2019 12:54:00 PM

LM Start	2.04	Rating **	M	Issue No.	51 (cont)
LM End	2.04	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55197_23434.jpg



WS- slide gate in CMP riser on levee slope

Photo 2 of 3 : UCIP_FA_2019_55197_23433.jpg



LS- a concrete vault found on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	2.04	Rating **	M	Issue No.	51 (cont)	
LM End	2.04	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.859791 °	38.859791 °	
				-121.524877 °	-121.524877 °	
DWR ID	22615					
Comment Code						
Inspector Comment						
DS_ID:22615 FS_ID:55197 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Non-Urgent, dense vegetation along the LS slope prevented a thorough inspection. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 - a concrete vault found off the pipe alignment on LS.- a CMP found across the road on LS.- a slide gate in CMP riser on levee slope on WS. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 15.5 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 24-inch pipe (HLM 2.05)]. FS Date: 8/21/2019 12:54:00 PM						

Photo 3 of 3 : UCIP_FA_2019_55197_81232.jpg



WS view: overview of WS. CMP riser with cover located on WS slope.

LM Start	2.05	Rating **	A/W	Issue No.	8	
LM End	2.05	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Crown Surface / Depressions / Rutting			38.860002 °		38.860002 °
				-121.524873 °		-121.524873 °
DWR ID	DWR_RD1001_06_s_2012_8					
Comment Code						
C2 : Repair depressions or ruts in the crown or slope.						
Inspector Comment						
There are depressions on the crown where there is cross traffic. Monitor this area and fix as needed.						

Photo 1 of 1 : FA_2019_RD1001_40_8_20190904_00003.jpg



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	2.29	Rating **	M	Issue No.	52	
LM End	2.29	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.863368 °	38.863368 °	
				-121.524852 °	-121.524852 °	
DWR ID	22626					
Comment Code						
Inspector Comment						
DS_ID:22626 FS_ID:55198 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Non-Urgent, due to a missing permit authorizing pipe and limited inspection due to dense vegetation on the LS. Dense vegetation prevented a thorough inspection on the LS slope and toe. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 - pipe submerged into water on landside. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 36-inch pipe (HLM 2.31)]. FS Date: 8/21/2019 12:55:00 PM						

Photo 1 of 3 : UCIP_FA_2019_55198_23431.jpg



WS- slide gate on CMP on levee slope

LM Start	2.29	Rating **	M	Issue No.	52 (cont)
LM End	2.29	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55198_23430.jpg



LS- headwall and submerged pipe. Pipe not visible due to water.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	2.29	Rating **	M	Issue No.	52 (cont)	
LM End	2.29	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.863368 °	38.863368 °	
				-121.524852 °	-121.524852 °	
DWR ID	22626					
Comment Code						
Inspector Comment						
DS_ID:22626 FS_ID:55198 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Non-Urgent, due to a missing permit authorizing pipe and limited inspection due to dense vegetation on the LS. Dense vegetation prevented a thorough inspection on the LS slope and toe. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 - pipe submerged into water on landside. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 36-inch corrugated metal gravity drainage pipe through the levee, 16 feet below the crown. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 36-inch pipe (HLM 2.31)]. FS Date: 8/21/2019 12:55:00 PM						

Photo 3 of 3 : UCIP_FA_2019_55198_23432.jpg



LS- headwall and submerged pipe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	2.29	Rating **	M	Issue No.	53
LM End	2.29	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.863385 °	38.863385 °
				-121.524866 °	-121.524866 °
DWR ID	22622				
Comment Code					
Inspector Comment					
DS_ID:22622 FS_ID:55201 EP_NO: 12208 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Crossing has been downgraded from Urgent to Non-Urgent, potential leak is more than 10 feet from WS toe. Still need to contact owner to determine the extent of WS repair. (O. Magana - DWR UCIP)10/18/2018 Same as previous inspection. No documentation is available to determine if there is a pipe integrity issue. Recommend internal inspection of the pipe through the levee to determine the condition of the pipe. Need to contact owner to obtain details of WS repair. Levee is about 8-10 feet high. Crossing remains Urgent due to the unknown reason for WS hole observed in the 2013 inspection (pipe repair or pipe leakage). (O. Magana - DWR UCIP)07/13/2016 Depression on WS berm has been backfilled, but the cause of the erosion was not addressed to my knowledge. As such, pipe integrity problem may still exist. Vegetation growth surrounds pipe on WS berm, in strike contrast to dry grass away from pipe alignment. This could be due to channel draining toward the pipe, or an indication of pipe leakage. (K. Fazel - UCIP)05/15/2013:- large pit at pipe daylight on WS berm, may be due to pipe leakage.- siphon breaker on LS shoulder not found. (P. Amatya - DWR) FIELD_STRUCT_DESC: 16-inch steel irrigation discharge pipe through the levee, 3 feet below the crown. 16-inch low-lift pump in the channel with a 1-inch electrical line also penetrating the levee to the power pole off the landside (LS) toe. 36-inch corrugated metal pipe (CMP) riser on the bank. Vent on the LS shoulder. Siphon breaker/vent on the apex of the pipe near the waterside (WS) pump. Standpipe off the LS toe. Pipe used seasonally only in the absence of groundwater, as per District President Joe Henderson. (16-inch irrigation pipe and 16-inch low-lift pump authorized under Permit No. 12208, 1977 - Thomas A. Cuguet). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 12:51:00 PM					

Photo 1 of 3 : UCIP_FA_2019_55201_23427.jpg



WS- pump and pipe on river bank

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	2.29	Rating **	M	Issue No.	53 (cont)	
LM End	2.29	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.863385 °	38.863385 °	
				-121.524866 °	-121.524866 °	
DWR ID	22622					
Comment Code						
Inspector Comment						
DS_ID:22622 FS_ID:55201 EP_NO: 12208 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Crossing has been downgraded from Urgent to Non-Urgent, potential leak is more than 10 feet from WS toe. Still need to contact owner to determine the extent of WS repair. (O. Magana - DWR UCIP)10/18/2018 Same as previous inspection. No documentation is available to determine if there is a pipe integrity issue. Recommend internal inspection of the pipe through the levee to determine the condition of the pipe. Need to contact owner to obtain details of WS repair. Levee is about 8-10 feet high. Crossing remains Urgent due to the unknown reason for WS hole observed in the 2013 inspection (pipe repair or pipe leakage). (O. Magana - DWR UCIP)07/13/2016 Depression on WS berm has been backfilled, but the cause of the erosion was not addressed to my knowledge. As such, pipe integrity problem may still exist. Vegetation growth surrounds pipe on WS berm, in strike contrast to dry grass away from pipe alignment. This could be due to channel draining toward the pipe, or an indication of pipe leakage. (K. Fazel - UCIP)05/15/2013:- large pit at pipe daylight on WS berm, may be due to pipe leakage.- siphon breaker on LS shoulder not found. (P. Amatya - DWR) FIELD_STRUCT_DESC: 16-inch steel irrigation discharge pipe through the levee, 3 feet below the crown. 16-inch low-lift pump in the channel with a 1-inch electrical line also penetrating the levee to the power pole off the landside (LS) toe. 36-inch corrugated metal pipe (CMP) riser on the bank. Vent on the LS shoulder. Siphon breaker/vent on the apex of the pipe near the waterside (WS) pump. Standpipe off the LS toe. Pipe used seasonally only in the absence of groundwater, as per District President Joe Henderson. (16-inch irrigation pipe and 16-inch low-lift pump authorized under Permit No. 12208, 1977 - Thomas A. Cuguet). [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 12:51:00 PM						

Photo 2 of 3 : UCIP_FA_2019_55201_23429.jpg



WS- large depression on levee berm

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	2.29	Rating **	M	Issue No.	53 (cont)
LM End	2.29	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.863385 °	38.863385 °
				-121.524866 °	-121.524866 °
DWR ID	22622				

Comment Code

Inspector Comment

DS_ID:22622
FS_ID:55201
EP_NO: 12208
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/21/2019 Crossing has been downgraded from Urgent to Non-Urgent, potential leak is more than 10 feet from WS toe. Still need to contact owner to determine the extent of WS repair. (O. Magana - DWR UCIP)10/18/2018 Same as previous inspection. No documentation is available to determine if there is a pipe integrity issue. Recommend internal inspection of the pipe through the levee to determine the condition of the pipe. Need to contact owner to obtain details of WS repair. Levee is about 8-10 feet high. Crossing remains Urgent due to the unknown reason for WS hole observed in the 2013 inspection (pipe repair or pipe leakage). (O. Magana - DWR UCIP)07/13/2016 Depression on WS berm has been backfilled, but the cause of the erosion was not addressed to my knowledge. As such, pipe integrity problem may still exist. Vegetation growth surrounds pipe on WS berm, in strike contrast to dry grass away from pipe alignment. This could be due to channel draining toward the pipe, or an indication of pipe leakage. (K. Fazel - UCIP)05/15/2013:- large pit at pipe daylight on WS berm, may be due to pipe leakage.- siphon breaker on LS shoulder not found. (P. Amatya - DWR)
FIELD_STRUCT_DESC: 16-inch steel irrigation discharge pipe through the levee, 3 feet below the crown. 16-inch low-lift pump in the channel with a 1-inch electrical line also penetrating the levee to the power pole off the landside (LS) toe. 36-inch corrugated metal pipe (CMP) riser on the bank. Vent on the LS shoulder. Siphon breaker/vent on the apex of the pipe near the waterside (WS) pump. Standpipe off the LS toe. Pipe used seasonally only in the absence of groundwater, as per District President Joe Henderson. (16-inch irrigation pipe and 16-inch low-lift pump authorized under Permit No. 12208, 1977 - Thomas A. Cuguet).
[Additional Reference(s): DWR Levee Log, 1993].
FS Date: 8/21/2019 12:51:00 PM

Photo 3 of 3 : UCIP_FA_2019_55201_23426.jpg



WS- large depression on levee berm at pipe daylight

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	2.53	Rating **	M	Issue No.	54
LM End	2.53	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.866940 °	38.866940 °
				-121.524834 °	-121.524834 °
DWR ID	22627				
Comment Code					
Inspector Comment					
DS_ID:22627					
FS_ID:55202					
EP_NO: 3511					
Repair Type: Non-Urgent					
Crossing Status: Not Found					
UCIP Comments: 08/21/2019 Record has been updated to Non-Urgent, unable to determine the status of the pipe through the levee. No signs of pipe found. Need to contact owner to determine status of crossing. (O. Magana - DWR UCIP)					
FIELD_STRUCT_DESC: Communications conduit of an unknown size or material through the levee, 3 feet below the crown. (Communications conduit authorized under Permit No. 3511, 1960 - United States Army Engineer District, Sacramento, Corps of Engineers). [Additional Reference(s): DWR Levee Log, 1993].					
FS Date: 8/21/2019 12:55:00 PM					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	2.69	Rating **	M	Issue No.	55	
LM End	2.69	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.869265 °	38.869265 °	
				-121.524833 °	-121.524833 °	
DWR ID	22628					
Comment Code						
Inspector Comment						
DS_ID:22628 FS_ID:55203 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for crossing and dense vegetation limited inspection. Dense vegetation prevented a thorough inspection of pipe. DWR DMP internal inspection has not been completed. Record will be updated once the internal inspection is available to determine condition of pipe through the levee. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 - Headwall at the landside toe not found.- concrete box on landside toe. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 24-inch pipe (HLM 2.70)]. FS Date: 8/21/2019 12:55:00 PM						

Photo 1 of 3 : UCIP_FA_2019_55203_23401.jpg



WS- slide gate on CMP riser on levee slope.

LM Start	2.69	Rating **	M	Issue No.	55 (cont)
LM End	2.69	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55203_23400.jpg



LS- a concrete box on landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	2.69	Rating **	M	Issue No.	55 (cont)
LM End	2.69	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.869265 °	38.869265 °
				-121.524833 °	-121.524833 °
DWR ID	22628				
Comment Code					
Inspector Comment					
DS_ID:22628 FS_ID:55203 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for crossing and dense vegetation limited inspection. Dense vegetation prevented a thorough inspection of pipe. DWR DMP internal inspection has not been completed. Record will be updated once the internal inspection is available to determine condition of pipe through the levee. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 - Headwall at the landside toe not found.- concrete box on landside toe. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 24-inch pipe (HLM 2.70)]. FS Date: 8/21/2019 12:55:00 PM					

Photo 3 of 3 : UCIP_FA_2019_55203_81242.jpg



Overview of levee crown looking u/s towards pipe crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	3.03	Rating **	M	Issue No.	56
LM End	3.03	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.874217 °	38.874217 °
				-121.524807 °	-121.524807 °
DWR ID	22629				
Comment Code					
Inspector Comment					
DS_ID:22629 FS_ID:55204 EP_NO: 2768 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Non-Urgent, unable to determine the status of the pipe through the levee. Notified DWR Levee Inspector of pipe removal and he will contact LMA to determine status. Need supporting documentation to determine if pipe was removed or abandoned per Title 23/CVFPB approval. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)01/24/2019 Attachment 1 under the 20141008 CVFPB acknowledgement letter indicates excavation and removal of pipe, backfill material, compact, and reseed. Need to confirm work and update UCIP record. (O. Magana - DWR UCIP) 05/15/2013 Pipe appears abandoned and if so should be done so properly.- Pipe capped on waterside.- a concrete pipe support saddle found on waterside levee slope.- also, an abandoned pipe found on landside levee slope. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, 1.3 feet below the crown. Pump on the waterside (WS) toe removed. Gate valve on the WS slope removed. Pipe exposed on both slopes. Pipe discharges into a culvert on the landside (LS) toe which traverses under Pacific Avenue. (Removal and replacement of pump authorized under Permit No. 2768, 1958 - George N. Darrach). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 14-inch pipe (HLM 3.04)]. FS Date: 8/21/2019 12:56:00 PM					

Photo 1 of 3 : UCIP_FA_2019_55204_23382.jpg



WS- an abandoned pipe on levee slope

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	3.03	Rating **	M	Issue No.	56 (cont)	
LM End	3.03	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.874217 °	38.874217 °	
				-121.524807 °	-121.524807 °	
DWR ID	22629					
Comment Code						
Inspector Comment						
DS_ID:22629 FS_ID:55204 EP_NO: 2768 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Non-Urgent, unable to determine the status of the pipe through the levee. Notified DWR Levee Inspector of pipe removal and he will contact LMA to determine status. Need supporting documentation to determine if pipe was removed or abandoned per Title 23/CVFPB approval. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)01/24/2019 Attachment 1 under the 20141008 CVFPB acknowledgement letter indicates excavation and removal of pipe, backfill material, compact, and reseed. Need to confirm work and update UCIP record. (O. Magana - DWR UCIP) 05/15/2013 Pipe appears abandoned and if so should be done so properly.- Pipe capped on waterside.- a concrete pipe support saddle found on waterside levee slope.- also, an abandoned pipe found on landside levee slope. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, 1.3 feet below the crown. Pump on the waterside (WS) toe removed. Gate valve on the WS slope removed. Pipe exposed on both slopes. Pipe discharges into a culvert on the landside (LS) toe which traverses under Pacific Avenue. (Removal and replacement of pump authorized under Permit No. 2768, 1958 - George N. Darrach). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 14-inch pipe (HLM 3.04)]. FS Date: 8/21/2019 12:56:00 PM						

Photo 2 of 3 : UCIP_FA_2019_55204_23381.jpg



WS- an abandoned end capped pipe on levee slope

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	3.03	Rating **	M	Issue No.	56 (cont)	
LM End	3.03	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.874217 °	38.874217 °	
				-121.524807 °	-121.524807 °	
DWR ID	22629					
Comment Code						
Inspector Comment						
DS_ID:22629 FS_ID:55204 EP_NO: 2768 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Non-Urgent, unable to determine the status of the pipe through the levee. Notified DWR Levee Inspector of pipe removal and he will contact LMA to determine status. Need supporting documentation to determine if pipe was removed or abandoned per Title 23/CVFPB approval. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)01/24/2019 Attachment 1 under the 20141008 CVFPB acknowledgement letter indicates excavation and removal of pipe, backfill material, compact, and reseed. Need to confirm work and update UCIP record. (O. Magana - DWR UCIP) 05/15/2013 Pipe appears abandoned and if so should be done so properly.- Pipe capped on waterside.- a concrete pipe support saddle found on waterside levee slope.- also, an abandoned pipe found on landside levee slope. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, 1.3 feet below the crown. Pump on the waterside (WS) toe removed. Gate valve on the WS slope removed. Pipe exposed on both slopes. Pipe discharges into a culvert on the landside (LS) toe which traverses under Pacific Avenue. (Removal and replacement of pump authorized under Permit No. 2768, 1958 - George N. Darrach). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 14-inch pipe (HLM 3.04)]. FS Date: 8/21/2019 12:56:00 PM						

Photo 3 of 3 : UCIP_FA_2019_55204_23380.jpg



WS- concrete pipe support saddle.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	3.08	Rating **	M	Issue No.	57
LM End	3.08	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.874821 °	38.874821 °
				-121.524806 °	-121.524806 °
DWR ID	22637				
Comment Code					
Inspector Comment					
DS_ID:22637 FS_ID:55205 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for pipe and due to limited inspection of pipe on the LS. Dense vegetation prevented a thorough inspection of LS slope for pipe damage. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 - no pipe and structure found on landside. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete collar on the WS edge of the berm. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 24-inch pipe (HLM 3.08)]. FS Date: 8/21/2019 12:56:00 PM					

Photo 1 of 3 : UCIP_FA_2019_55205_23394.jpg



WS- slide gate in CMP riser on levee slope.

LM Start	3.08	Rating **	M	Issue No.	57 (cont)
LM End	3.08	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_55205_23393.jpg



LS- no pipe/structure found on landside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	3.08	Rating **	M	Issue No.	57 (cont)	
LM End	3.08	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.874821 °	38.874821 °	
				-121.524806 °	-121.524806 °	
DWR ID	22637					
Comment Code						
Inspector Comment						
DS_ID:22637 FS_ID:55205 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from No Action Needed to Non-Urgent, no permit has been identified for pipe and due to limited inspection of pipe on the LS. Dense vegetation prevented a thorough inspection of LS slope for pipe damage. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 - no pipe and structure found on landside. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete collar on the WS edge of the berm. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 24-inch pipe (HLM 3.08)]. FS Date: 8/21/2019 12:56:00 PM						

Photo 3 of 3 : UCIP_FA_2019_55205_81251.jpg



Overview of levee crown looking u/s towards pipe crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

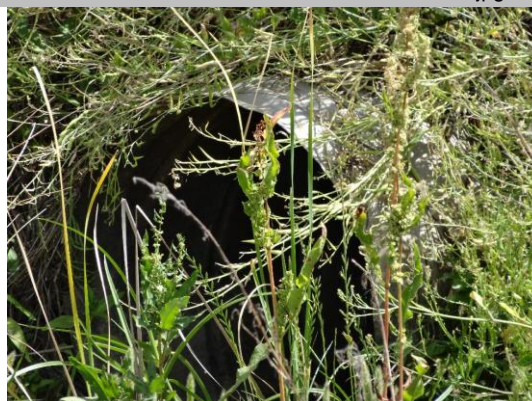
Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	3.28	Rating **	M	Issue No.	58	
LM End	3.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.877706 °	38.877706 °	
				-121.524787 °	-121.524787 °	
DWR ID	22630					
Comment Code						
Inspector Comment						
DS_ID:22630 FS_ID:55206 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Non-Urgent, no permit has been found and limited inspection prevented thorough inspection at crossing. Dense vegetation on LS slope and toe prevented a thorough inspection at pipe location. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 - pipe opens in irrigation ditch on landside.- vegetation cleaning on LS pipe opening. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 24-inch pipe (HLM 3.28)]. FS Date: 8/21/2019 12:56:00 PM						

LM Start	3.28	Rating **	M	Issue No.	58 (cont)
LM End	3.28	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55206_23396.jpg



LS- vegetation on CMP end.

Photo 2 of 3 : UCIP_FA_2019_55206_23395.jpg



LS- CMP opens in irrigation ditch.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	3.28	Rating **	M	Issue No.	58 (cont)	
LM End	3.28	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.877706 °	38.877706 °	
				-121.524787 °	-121.524787 °	
DWR ID	22630					
Comment Code						
Inspector Comment						
DS_ID:22630 FS_ID:55206 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Non-Urgent, no permit has been found and limited inspection prevented thorough inspection at crossing. Dense vegetation on LS slope and toe prevented a thorough inspection at pipe location. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 - pipe opens in irrigation ditch on landside.- vegetation cleaning on LS pipe opening. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 24-inch pipe (HLM 3.28)]. FS Date: 8/21/2019 12:56:00 PM						

Photo 3 of 3 : UCIP_FA_2019_55206_23397.jpg



WS- slide gate in CMP riser on levee slope

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	3.43	Rating **	M	Issue No.	59
LM End	3.43	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.879960 °	38.879960 °
				-121.524780 °	-121.524780 °
DWR ID	22619				
Comment Code					
Inspector Comment					
DS_ID:22619 FS_ID:54565 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Non-Urgent, no permit has been identified for pipe. (O. Magana - DWR UCIP)05/15/2013 - needs filling/plugging gap between 4-inch and 10-inch pipes. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 1 of 2: Capped 4-inch steel irrigation pipe sleeved through a 10-inch steel pipe, at an unknown depth. Pipe exposed just off the top of the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1993]. FS Date: 8/21/2019 12:57:30 PM					

LM Start	3.43	Rating **	M	Issue No.	59 (cont)
LM End	3.43	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_FA_2019_54565_22121.jpg



WS- a 4-inch steel pipe sleeved through 10-inch steel pipe.

Photo 2 of 2 : UCIP_FA_2019_54565_22120.jpg



WS- gap between two pipes needs to be filled.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	3.59	Rating **	M	Issue No.	60	
LM End	3.59	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.882247 °	38.882247 °	
				-121.524762 °	-121.524762 °	
DWR ID	22631					
Comment Code						
Inspector Comment						
DS_ID:22631 FS_ID:55208 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Non-Urgent, due to limited inspection on the LS and missing permit. Dense vegetation on LS slope and toe prevented thorough inspection. Pipe description was updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 Only a small section of head wall visible, almost buried. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 24-inch pipe (HLM 3.59)]. FS Date: 8/21/2019 12:57:00 PM						

LM Start	3.59	Rating **	M	Issue No.	60 (cont)
LM End	3.59	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55208_22086.jpg



WS- fixed slide gate in CMP riser on levee slope.

Photo 2 of 3 : UCIP_FA_2019_55208_22085.jpg



LS- almost buried concrete headwall. Only upper portion of the wall is visible.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	3.59	Rating **	M	Issue No.	60 (cont)	
LM End	3.59	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.882247°	38.882247°	
				-121.524762°	-121.524762°	
DWR ID	22631					
Comment Code						
Inspector Comment						
DS_ID:22631 FS_ID:55208 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Non-Urgent, due to limited inspection on the LS and missing permit. Dense vegetation on LS slope and toe prevented thorough inspection. Pipe description was updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 Only a small section of head wall visible, almost buried. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 24-inch pipe (HLM 3.59)]. FS Date: 8/21/2019 12:57:00 PM						

Photo 3 of 3 : UCIP_FA_2019_55208_81262.jpg



Overview of levee crown looking u/s towards pipe crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	3.92	Rating **	U	Issue No.	61
LM End	3.92	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.887003 °	38.887003 °
				-121.524746 °	-121.524746 °
DWR ID	22632				

Comment Code

Inspector Comment

DS_ID:22632

FS_ID:55209

EP_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 08/21/2019 Record remains Urgent, pipe wall at the inlet has failed. DMP internal video inspection has not been completed to determine extent of damage through the levee. Dense vegetation on LS prevented a thorough inspection. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)10/30/2018 Photos of the pipe failure, visible from the LS inlet, were uploaded. Crossing remains Urgent due to the deteriorated condition of the pipe. Recommend internal inspection through the levee. (O. Magana - DWR UCIP)10/18/2018 Unable to access the LS toe due to muddy conditions. Assume no repairs have been done to this crossing to date. This crossing is part of DWR's Deferred Maintenance Project (DMP). Based on the photos taken in 2013 and 2016 the pipe section through the wall has missing pipe sections due to heavy corrosion. Recommend repair to avoid further deterioration of pipe section through levee. Levee is about 8-10 feet high. Crossing remains Urgent based on the deteriorated condition of the pipe on the LS. (O. Magana - DWR UCIP)07/13/2016 Same condition as last. Pipe heavily corroded and partially filled with debris and straw. (K. Fazel - UCIP) 05/15/2013:- mud/soil debris on LS pipe end.- highly corroded pipe in outlet.- may require video inspection or pressure test. (P. Amatya - DWR)

FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.2 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 24-inch pipe (HLM 3.93)].

FS Date: 8/21/2019 12:51:00 PM

Photo 1 of 3 : UCIP_FA_2019_55209_22046.jpg



WS- slide gate, air vent in CMP riser on levee slope

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	3.92	Rating **	U	Issue No.	61 (cont)
LM End	3.92	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.887003 °	38.887003 °
				-121.524746 °	-121.524746 °
DWR ID	22632				

Comment Code

Inspector Comment

DS_ID:22632
FS_ID:55209
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/21/2019 Record remains Urgent, pipe wall at the inlet has failed. DMP internal video inspection has not been completed to determine extent of damage through the levee. Dense vegetation on LS prevented a thorough inspection. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)10/30/2018 Photos of the pipe failure, visible from the LS inlet, were uploaded. Crossing remains Urgent due to the deteriorated condition of the pipe. Recommend internal inspection through the levee. (O. Magana - DWR UCIP)10/18/2018 Unable to access the LS toe due to muddy conditions. Assume no repairs have been done to this crossing to date. This crossing is part of DWR's Deferred Maintenance Project (DMP). Based on the photos taken in 2013 and 2016 the pipe section through the wall has missing pipe sections due to heavy corrosion. Recommend repair to avoid further deterioration of pipe section through levee. Levee is about 8-10 feet high. Crossing remains Urgent based on the deteriorated condition of the pipe on the LS. (O. Magana - DWR UCIP)07/13/2016 Same condition as last. Pipe heavily corroded and partially filled with debris and straw. (K. Fazel - UCIP) 05/15/2013:- mud/soil debris on LS pipe end.- highly corroded pipe in outlet.- may require video inspection or pressure test. (P. Amatya - DWR)
FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.2 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 24-inch pipe (HLM 3.93)].
FS Date: 8/21/2019 12:51:00 PM

Photo 2 of 3 : UCIP_FA_2019_55209_22045.jpg



LS- CMP in concrete head/wing wall outlet

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	3.92	Rating **	U	Issue No.	61 (cont)							
LM End	3.92	Issue Type +	En	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DRAFT DWR UCIP Field Study		38.887003°	38.887003°								
			-121.524746°	-121.524746°								
DWR ID	22632											
Comment Code												
Inspector Comment												
DS_ID:22632 FS_ID:55209 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record remains Urgent, pipe wall at the inlet has failed. DMP internal video inspection has not been completed to determine extent of damage through the levee. Dense vegetation on LS prevented a thorough inspection. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)10/30/2018 Photos of the pipe failure, visible from the LS inlet, were uploaded. Crossing remains Urgent due to the deteriorated condition of the pipe. Recommend internal inspection through the levee. (O. Magana - DWR UCIP)10/18/2018 Unable to access the LS toe due to muddy conditions. Assume no repairs have been done to this crossing to date. This crossing is part of DWR's Deferred Maintenance Project (DMP). Based on the photos taken in 2013 and 2016 the pipe section through the wall has missing pipe sections due to heavy corrosion. Recommend repair to avoid further deterioration of pipe section through levee. Levee is about 8-10 feet high. Crossing remains Urgent based on the deteriorated condition of the pipe on the LS. (O. Magana - DWR UCIP)07/13/2016 Same condition as last. Pipe heavily corroded and partially filled with debris and straw. (K. Fazel - UCIP) 05/15/2013:- mud/soil debris on LS pipe end.- highly corroded pipe in outlet.- may require video inspection or pressure test. (P. Amatya - DWR) FIELD_STRUCT_DESC: 24-inch corrugated metal gravity drainage pipe through the levee, 12.2 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete headwall at the landside (LS) toe. Pipe crosses under the channel. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 24-inch pipe (HLM 3.93)]. FS Date: 8/21/2019 12:51:00 PM												

Photo 3 of 3 : UCIP_FA_2019_55209_22044.jpg



LS- highly corroded and damaged CMP in concrete head/wing wall outlet

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Reclamation District No. 1001 Nicolaus

View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	4.36	Rating **	U	Issue No.	62	
LM End	4.36	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.893448 °	38.893448 °	
				-121.524719 °	-121.524719 °	
DWR ID	22618					
Comment Code						
Inspector Comment						
DS_ID:22618 FS_ID:55210 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from Non-Urgent to Urgent, due to potential levee integrity. Scour hole visible at WS toe that appears to be within the project prism. No permit has been found authorizing this crossing. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 - damaged head/wing wall in inlet structure. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 30-inch corrugated metal gravity irrigation pipe through the levee, 15.9 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterward slope. Pipe discharges into a large irrigation ditch on the west side of Pacific Avenue. (Joplin and South Sutter Water District). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 30-inch pipe (HLM 4.38)]. FS Date: 8/21/2019 12:58:00 PM						

LM Start	4.36	Rating **	U	Issue No.	62 (cont)
LM End	4.36	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_55210_22034.jpg



WS- slide gate in CMP riser.

Photo 2 of 3 : UCIP_FA_2019_55210_22033.jpg



WS- inlet wing wall with trashrack

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	4.36	Rating **	U	Issue No.	62 (cont)	
LM End	4.36	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.893448 °	38.893448 °	
				-121.524719 °	-121.524719 °	
DWR ID	22618					
Comment Code						
Inspector Comment						
DS_ID:22618 FS_ID:55210 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 08/21/2019 Record has been updated from Non-Urgent to Urgent, due to potential levee integrity. Scour hole visible at WS toe that appears to be within the project prism. No permit has been found authorizing this crossing. Record updated with USACE O&M reference. (O. Magana - DWR UCIP)05/15/2013 - damaged head/wing wall in inlet structure. (P. Amatya - DWR UCIP) FIELD_STRUCT_DESC: 30-inch corrugated metal gravity irrigation pipe through the levee, 15.9 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterward slope. Pipe discharges into a large irrigation ditch on the west side of Pacific Avenue. (Joplin and South Sutter Water District). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual, Unit 142 - Back Levee of Reclamation District No. 1001, June 1959, Revised 04 May 2018, 30-inch pipe (HLM 4.38)]. FS Date: 8/21/2019 12:58:00 PM						

Photo 3 of 3 : UCIP_FA_2019_55210_22032.jpg



WS- inlet pipe with trashrack in a damaged wing wall

LM Start	4.71	Rating **	M	Issue No.	24
LM End	4.71	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.896310 °	38.896310 °
				-121.520674 °	-121.520674 °
DWR ID	DWR_RD1001_06_f_2016_24				
Comment Code					
EQ : Equipment					
Inspector Comment					
Old piece of pipe still lying on landside levee slope, and equipment on levee crown, Fall 2019.					

Photo 1 of 2 : FA_2019_RD1001_40_24_20190904_00008.jpg



View looking upstream on crown of a piece of equipment that prohibits access, Spring 2019.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	10/02/2019 10/02/2019	Sterling York

LM Start	4.71	Rating **	M	Issue No.	24 (cont)	
LM End	4.71	Issue Type +	En	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			38.896310 °	38.896310 °	
				-121.520674 °	-121.520674 °	
DWR ID	DWR_RD1001_06_f_2016_24					
Comment Code						
EQ : Equipment						
Inspector Comment						
Old piece of pipe still lying on landside levee slope, and equipment on levee crown, Fall 2019.						

Photo 2 of 2 : FA_2019_RD1001_40_24_20190904_00009.jpg



View of an old piece of pipe still lying on landside levee slope looking downstream. Fall 2018.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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